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NEWS 7 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content  
and Features  
NEWS 8 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail  
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NEWS 12 APR 02 New Thesaurus Added to Derwent Databases for Smooth  
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NEWS 13 APR 02 EMBASE Adds Unique Records from MEDLINE, Expanding  
Coverage back to 1948  
NEWS 14 APR 07 CA/Caplus CLASS Display Streamlined with Removal of  
Pre-IPC 8 Data Fields  
NEWS 15 APR 07 50,000 World Traditional Medicine (WTM) Patents Now  
Available in Caplus  
NEWS 16 APR 07 MEDLINE Coverage Is Extended Back to 1947  
  
NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
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FULL ESTIMATED COST	0.22	0.22

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=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.49	0.71

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 05:47:54 ON 14 MAY 2010

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PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*

SESSION RESUMED IN FILE 'REGISTRY' AT 05:58:07 ON 14 MAY 2010

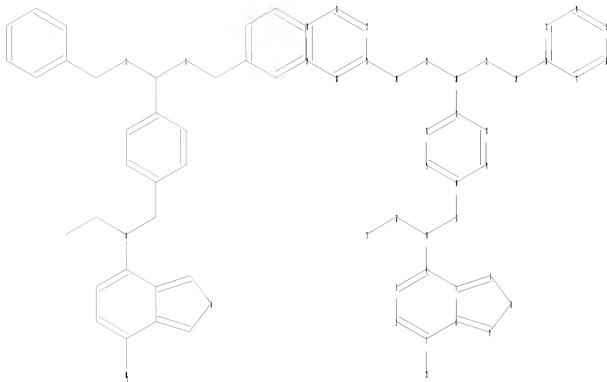
FILE 'REGISTRY' ENTERED AT 05:58:07 ON 14 MAY 2010

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.49	0.71

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10594430\10594430 elected core.str



```

chain nodes :
10 11 12 13 20 21 22 23 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 14 15 16 17 18 19 26 27 28 29 30 31 32 33
34 35 36 37
chain bonds :
1-23 4-10 10-11 10-12 11-14 12-13 17-20 20-21 20-22 21-25 22-24 24-27
25-26
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 14-15 14-19 15-16 16-17 17-18
18-19 26-33 26-37 27-28 27-32 28-29 29-30 30-31 31-32 33-34 34-35 35-36
36-37
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-10 5-6 5-7 6-9 7-8 8-9 10-11 10-12 20-21 20-22
21-25 22-24
exact bonds :
1-23 11-14 12-13 17-20 24-27 25-26
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19 26-33 26-37 27-28 27-32 28-29 29-30
30-31 31-32 33-34 34-35 35-36 36-37

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:Atom 27:Atom
28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom
37:Atom

```

L1           STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1           STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam

SAMPLE SEARCH INITIATED 05:59:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -           1 TO ITERATE

100.0% PROCESSED           1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE   \*\*COMPLETE\*\*

BATCH   \*\*COMPLETE\*\*

PROJECTED ITERATIONS:     1 TO       80

PROJECTED ANSWERS:        0 TO       0

L2           0 SEA SSS SAM L1

=> search l1 sss full

FULL SEARCH INITIATED 05:59:21 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -       10 TO ITERATE

100.0% PROCESSED       10 ITERATIONS

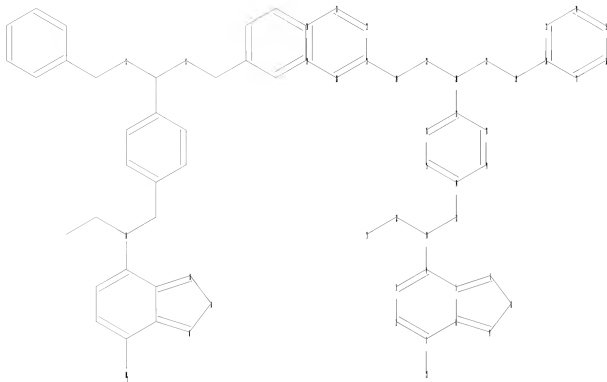
0 ANSWERS

SEARCH TIME: 00.00.01

L3           0 SEA SSS FUL L1

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
files\10594430\10594430 2nd elected core.str



```

chain nodes :
10 11 12 13 20 21 22 23 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 14 15 16 17 18 19 26 27 28 29 30 31 32 33
34 35 36 37
chain bonds :
1-23 4-10 10-11 10-12 11-14 12-13 17-20 20-21 20-22 21-25 22-24 24-27
25-26
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 14-15 14-19 15-16 16-17 17-18
18-19 26-33 26-37 27-28 27-32 28-29 29-30 30-31 31-32 33-34 34-35 35-36
36-37
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 4-10 5-6 5-7 6-9 7-8 8-9 10-11 10-12 20-21 20-22
21-25 22-24
exact bonds :
1-23 11-14 12-13 17-20 24-27 25-26
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19 26-33 26-37 27-28 27-32 28-29 29-30
30-31 31-32 33-34 34-35 35-36 36-37

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:Atom 27:Atom
28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom
37:Atom

```

L4           STRUCTURE UPLOADED

=> d l4

L4 HAS NO ANSWERS

L4           STR

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Structure attributes must be viewed using STN Express query preparation.

=> search l4 sss sam

SAMPLE SEARCH INITIATED 06:01:21 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED -           61 TO ITERATE

100.0% PROCESSED       61 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:    ONLINE   \*\*COMPLETE\*\*

BATCH   \*\*COMPLETE\*\*

PROJECTED ITERATIONS:       752 TO       1688

PROJECTED ANSWERS:           0 TO       0

L5           0 SEA SSS SAM L4

=> search l4 sss full

FULL SEARCH INITIATED 06:01:35 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -       1069 TO ITERATE

100.0% PROCESSED       1069 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

L6           1 SEA SSS FUL L4

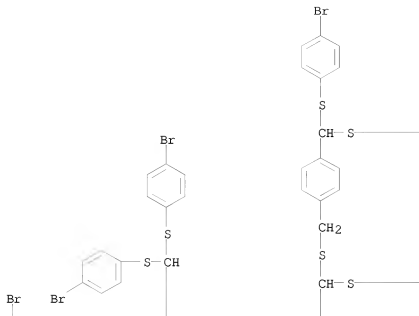
=> d scan

L6   1 ANSWERS    REGISTRY   COPYRIGHT 2010 ACS on STN

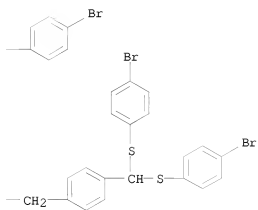
IN   2,1,3-Benzoxadiazol-4-amine, N-[[[4-(bis[[[4-(bis[[[4-(bis[[4-bromophenyl]thio]methyl]phenyl]methyl]thio]methyl]phenyl]methyl]thio]methyl]phenyl]methyl]-N-ethyl-7-nitro-

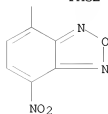
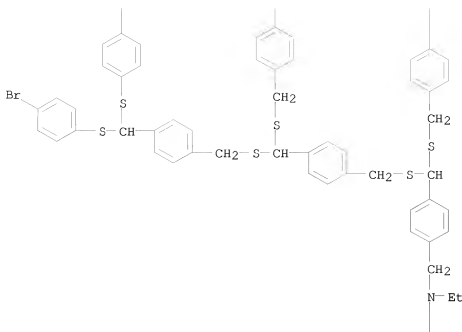
MF   C112 H88 Br8 N4 O3 S14

PAGE 1-A



PAGE 1-B





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus  
 COST IN U.S. DOLLARS  
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SINCE FILE	TOTAL
ENTRY	SESSION
385.04	385.26

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FILE COVERS 1907 - 14 May 2010 VOL 152 ISS 21  
 FILE LAST UPDATED: 13 May 2010 (20100513/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l6

L7 L7 1 L6

=> d l7

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN  
 AN 2005:1075768 CAPLUS  
 DN 143:367755  
 TI Dendrons and dendrimers having thioacetal linkages and method of producing the same  
 IN Nakamura, Koki  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO PCT Int. Appl., 45 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005092847	A1	20051006	WO 2005-JP6545	20050328
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	JP 2005281166	A	20051013	JP 2004-95408	20040329
	JP 2005281444	A	20051013	JP 2004-96073	20040329
	JP 2005281172	A	20051013	JP 2004-96080	20040329
	EP 1730106	A1	20061213	EP 2005-727688	20050328
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	CN 1918117	A	20070221	CN 2005-80004779	20050328
	CN 100567264	C	20091209		
	KR 2006130088	A	20061218	KR 2006-713516	20060705
	US 20080262238	A1	20081023	US 2006-594430	20060926

PRAI JP 2004-95408 A 20040329  
JP 2004-96073 A 20040329  
JP 2004-96080 A 20040329  
WO 2005-JP6545 W 20050328

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:367755

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> thio?

L8 618641 THIO?

=> dendrimer

11591 DENDRIMER

14623 DENDRIMERS

L9 17009 DENDRIMER  
(DENDRIMER OR DENDRIMERS)

=> dendron or star? or dendr?

1733 DENDRON

1786 DENDRONS

14 DENDRA

2594 DENDRON

(DENDRON OR DENDRONS OR DENDRA)

923113 STAR?

113721 DENDR?

L10 1032164 DENDRON OR STAR? OR DENDR?

=> l9 or l10

L11 1032164 L9 OR L10

=> l8 and l11

L12 22888 L8 AND L11

=> thioacetal

1369 THIOACETAL

1267 THIOACETALS

L13 2032 THIOACETAL  
(THIOACETAL OR THIOACETALS)

=> l12 mand l13

MISSING OPERATOR L12 MAND

The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> l12 and l13

L14 71 L12 AND L13

=> d l14 61-71 ti

L14 ANSWER 61 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN

TI 2,5-Anhydro-1-deoxy-D-lyxitol, 2,5-anhydro-1-deoxy-D-mannitol, and  
2,5-anhydro-1-deoxy-D-talitol. Synthesis and enzymic studies

L14 ANSWER 62 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN

TI  $\alpha$ -Oxoketene dithioacetal chemistry. 2. Conjugate reductions with  
electrophilic reducing agents

L14 ANSWER 63 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN

TI An improved synthesis of ketene dimethyl thioacetal monoxide

L14 ANSWER 64 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Stereochemistry and mechanism of the base-induced loss of thiophenol from 1,1,3-tris(phenylthio)alkanes to form cyclopropanone dithioketals

L14 ANSWER 65 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Synthesis of dl-pumiliotoxin C hydrochloride and its crystal structure

L14 ANSWER 66 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Facile preparation of thioacetals in neutral medium starting from sodium borohydride

L14 ANSWER 67 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Structure of turbicoryn, a new glucoside from *Turbicoryna corymbosa*

L14 ANSWER 68 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Chlorothiazide and dihydrochlorothiazide. Synthesis of some new derivatives

L14 ANSWER 69 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Synthesis of thioacetals of amino sugars

L14 ANSWER 70 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI The preparation of aldotetroses from aldopentoses via 1,1-diethylsulfonyl-3,4,5-trihydroxypent-1-enes

L14 ANSWER 71 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Oxazoles and oxazolones

=> d l14 50-60 ti

L14 ANSWER 50 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Structure of 4,5-di-O-acetyl-6-S-acetyl-2,3-di-S-ethyl-2,3,6-trithio-D-allose diethyl dithioacetal

L14 ANSWER 51 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Stereocontrolled synthesis of lankanolide from 1,6-anhydro- $\beta$ -D-glucopyranose (levoglucosan). 1. Synthesis of the C-1/7 and C-8/15 segments

L14 ANSWER 52 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Stereocontrolled synthesis of erythronolides A and B from 1,6-anhydro- $\beta$ -D-glucopyranose (levoglucosan). Skeleton assembly in (C9-C13) + (C7-C8) + (C1-C6) sequence

L14 ANSWER 53 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Preparation of esters containing dithioacetal functions, useful as polymer stabilizers

L14 ANSWER 54 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Chemistry of ayurvedic crude drugs. VII. Guggulu (resin from *Commiphora mukul*)-6. Absolute stereochemistry of guggultetrols

L14 ANSWER 55 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI A simple entry to functionalized seven-membered ring systems via  $\alpha$ -hydroxycyclobutane rearrangement followed by retroaldol cleavage

L14 ANSWER 56 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI New approach to annelated butenolides. Total synthesis of ( $\pm$ )-isodrimenin

L14 ANSWER 57 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Rearrangement of mono-O-isopropylidene derivatives of aldose diethyl dithioacetals

L14 ANSWER 58 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Inversion of reactivity (umpolung) of  $\alpha,\beta$ -ethylenic ketones and aldehydes. Electrochemical deprotection of  $\gamma$ - thioacetalated phosphonium salts

L14 ANSWER 59 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Chemoselective behavior of enolate carbenes derived from dianions of enol thioacetals

L14 ANSWER 60 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Preparation and reactions of some reagents for umpolung under phase-transfer catalysis

=> l13(l)l11  
 L15 27 L13(L)L11

=> d l13 17-27 ti

L13 ANSWER 17 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Water Mediated Construction of Trisubstituted Pyrazoles/Isoxazoles Library using Ketene Dithioacetals

L13 ANSWER 18 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI A vicinal acyloxy group participation SN2 reaction of thiol nucleophiles in the formation of thioacetals

L13 ANSWER 19 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Process for preparation of fluorine-containing  $\alpha$ -oxo ketene dithioacetals

L13 ANSWER 20 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI An efficient and chemoselective method for synthesis of 1,3-oxathiolanes from aldehydes and their deprotection catalyzed by V(HSO4)3

L13 ANSWER 21 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Catalytic carbon-sulfur bond formation by amphoteric vanadyl triflate: exploring with thia-Michael addition, thioacetalization, and transthioacetalization reactions

L13 ANSWER 22 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI One-pot synthesis of new tetrasubstituted thiophenes and selenophenes

L13 ANSWER 23 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Novel Synthesis of 4H-Quinolizine Derivatives Using Sulfonyl Ketene Dithioacetals

L13 ANSWER 24 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Anionic cyclizations of aromatic ester dithioacetals with facially biased  $\alpha,\beta$ -unsaturated ketones

L13 ANSWER 25 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Total Synthesis and Absolute Stereochemistry of Integric Acid

L13 ANSWER 26 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Silicon- and sulfur-mediated synthesis of benzoannulated cyclooctanols

L13 ANSWER 27 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of benzimidazole linked pyrrolo[2,1-c][1,4]benzodiazepine hybrids as antitumor agents

=> d 113 17, 21 ti fbib abs

L13 ANSWER 17 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN

TI Water Mediated Construction of Trisubstituted Pyrazoles/Isoxazoles Library using Ketene Dithioacetals

AN 2009:1494822 CAPLUS

DN 152:74937

TI Water Mediated Construction of Trisubstituted Pyrazoles/Isoxazoles Library using Ketene Dithioacetals

AU Savant, Mahesh M.; Pansuriya, Akshay M.; Bhuva, Chirag V.; Kapuriya, Naval; Patel, Anil S.; Audichya, Vipul B.; Pipaliya, Piyush V.; Naliapara, Yogesh T.

CS Department of Chemistry, Chemical Research Laboratory, Saurashtra University, Rajkot, 360005, India

SO Journal of Combinatorial Chemistry (2010), 12(1), 176-180

CODEN: JCCHFF; ISSN: 1520-4766

PB American Chemical Society

DT Journal

LA English

AB A small mol. library of alkyl, sulfone, and carboxamide functionalized pyrazoles and isoxazoles has been developed via a rapid sequential condensation of various  $\alpha$ -acylketene dithioacetals with hydrazine hydrate or hydroxylamine hydrochloride, followed by oxidation of sulfide to sulfone using water as the reaction medium. The newly developed methodol. has the advantages of excellent yield and chemical purity with short reaction time using water as a solvent.

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 21 OF 2032 CAPLUS COPYRIGHT 2010 ACS on STN

TI Catalytic carbon-sulfur bond formation by amphoteric vanadyl triflate: exploring with thia-Michael addition, thioacetalization, and transthioacetalization reactions

AN 2009:1415179 CAPLUS

DN 152:144056

TI Catalytic carbon-sulfur bond formation by amphoteric vanadyl triflate: exploring with thia-Michael addition, thioacetalization, and transthioacetalization reactions

AU Chen, Chien-Tien; Lin, Yow-Dzer; Liu, Cheng-Yuan

CS Department of Chemistry, National Taiwan Normal University, Taipei, 11650, Taiwan

SO Tetrahedron (2009), 65(50), 10470-10476

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 152:144056

AB A series of thiols were examined as protic nucleophiles for Michael-type addns. to  $\alpha,\beta$ -unsatd. carbonyls as well as double nucleophilic condensations with aldehydes, ketones, and acetals catalyzed by amphoteric, water-tolerant vanadyl triflate under mild and neutral conditions. The newly developed C-S bond formation protocols were carried out smoothly in good to high yields in a highly chemoselective manner.

RE.CNT 93 THERE ARE 93 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	43.73	428.99
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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FILE 'REGISTRY' ENTERED AT 06:13:23 ON 14 MAY 2010  
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 DICTIONARY FILE UPDATES: 12 MAY 2010 HIGHEST RN 1222633-86-4

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REGISTRY includes numerically searchable data for experimental and  
 predicted properties as well as tags indicating availability of  
 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary  
 files\10594430\10594430 thio acetal core.str



chain nodes :  
 1 2 3  
 ring/chain nodes :  
 4 5  
 chain bonds :  
 1-3 1-2 2-4 3-5  
 exact/norm bonds :  
 1-3 1-2 2-4 3-5

Match level :  
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS

L16 STRUCTURE UPLOADED

=> d l16  
 L16 HAS NO ANSWERS  
 L16 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> search l16 sss sam
SAMPLE SEARCH INITIATED 06:13:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      3264 TO ITERATE

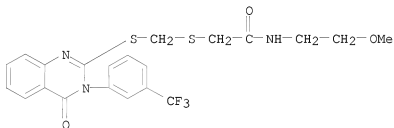
 61.3% PROCESSED      2000 ITERATIONS                      50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   61854 TO  68706
PROJECTED ANSWERS:      43778 TO  49572

L17      50 SEA SSS SAM L16

=> d scan

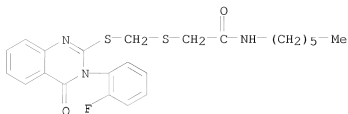
L17  50 ANSWERS  REGISTRY  COPYRIGHT 2010 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C21 H20 F3 N3 O3 S2
```



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

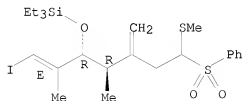
```
L17  50 ANSWERS  REGISTRY  COPYRIGHT 2010 ACS on STN
IN   Acetamide, 2-[[[3-(2-fluorophenyl)-3,4-dihydro-4-oxo-2-
MF   quinasolinyl]thio]methyl]thio]-N-hexyl-
      C23 H26 F N3 O2 S2
```



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L17 50 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, [[(4R,5R,6E)-7-iodo-4,6-dimethyl-3-methylene-1-(methylthio)-5-  
 [(triethylsilyl)oxy]-6-hepten-1-yl]sulfonyl]-  
 MF C23 H37 I O3 S2 Si

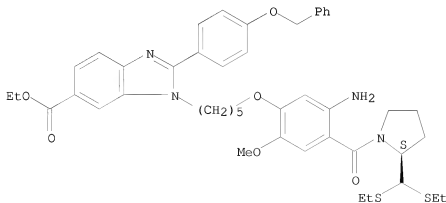
Absolute stereochemistry.  
 Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L17 50 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1H-Benzimidazole-6-carboxylic acid,  
 1-[5-[5-amino-4-[[[(2S)-2-[bis(ethylthio)methyl]-1-pyrrolidinyl]carbonyl]-2-  
 methoxyphenoxy]pentyl]-2-[4-(phenylmethoxy)phenyl]-, ethyl ester  
 MF C45 H54 N4 O6 S2

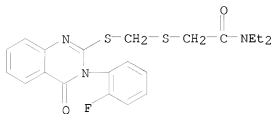
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

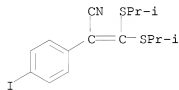


L17 50 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Acetamide, N,N-diethyl-2-[[[3-(2-fluorophenyl)-3,4-dihydro-4-oxo-2-quinazolinyl]thio]methyl]thio]-  
 MF C21 H22 F N3 O2 S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L17 50 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzeneacetonitrile,  $\alpha$ -[bis[(1-methylethyl)thio]methylene]-4-iodo-  
 MF C15 H18 I N S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l16 sss full  
 FULL SEARCH INITIATED 06:14:36 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 63971 TO ITERATE

100.0% PROCESSED 63971 ITERATIONS 45845 ANSWERS  
 SEARCH TIME: 00.00.01

L18 45845 SEA SSS FUL L16

=> save temp thioacetlcore/a  
 ENTER L#, L# RANGE, ALL, OR (END):l18  
 THIOACETLCORE/A IS NOT A VALID SAVED NAME  
 Enter the name you wish to use for the saved query,  
 answer set, or L-number list. The name must:  
 1. Begin with a letter,  
 2. Have 1-12 characters,  
 3. Contain only letters (A-Z) and numbers (0-9),  
 4. End with /Q for a query (search profile,  
 structure, or screen set), /A for an answer

set, or /L for an L-number list.  
5. Not already be in use as a saved name,  
6. Not be END, SAV, SAVE, SAVED  
7. Not have the form of an L-number (Lnnn).  
ENTER NAME OR (END):end

=> save temp l18 thiocore/a  
ANSWER SET L18 HAS BEEN SAVED AS 'THIOCORE/A'

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	193.50	622.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.70

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FILE COVERS 1907 - 14 May 2010 VOL 152 ISS 21  
FILE LAST UPDATED: 13 May 2010 (20100513/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l18  
L19 23329 L18

=> d his

(FILE 'HOME' ENTERED AT 05:47:13 ON 14 MAY 2010)

FILE 'REGISTRY' ENTERED AT 05:47:48 ON 14 MAY 2010

L1	STRUCTURE UPLOADED
L2	0 SEARCH L1 SSS SAM
L3	0 SEARCH L1 SSS FULL
L4	STRUCTURE UPLOADED
L5	0 SEARCH L4 SSS SAM

L6 1 SEARCH L4 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:01:57 ON 14 MAY 2010

L7 1 L6  
L8 618641 THIO?  
L9 17009 DENDRIMER  
L10 1032164 DENDRON OR STAR? OR DENDR?  
L11 1032164 L9 OR L10  
L12 22888 L8 AND L11  
L13 2032 THIOACETAL  
L14 71 L12 AND L13  
L15 27 L13(L)L11

FILE 'REGISTRY' ENTERED AT 06:13:23 ON 14 MAY 2010

L16 STRUCTURE UPLOADED  
L17 50 SEARCH L16 SSS SAM  
L18 45845 SEARCH L16 SSS FULL  
SAVE TEMP L18 THIOCORE/A

FILE 'CAPLUS' ENTERED AT 06:16:17 ON 14 MAY 2010

L19 23329 L18  
  
=> l11 and l19  
L20 1109 L11 AND L19

=> l11 (1) l19  
L21 171 L11 (L) L19

=> d l21 161-171 ti

L21 ANSWER 161 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Branched chain cyclitols: asymmetric synthesis of a  
1 $\alpha$ ,25-dihydroxy-19-norvitamin D3 A-ring synthon

L21 ANSWER 162 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrophotographic material for color proofing

L21 ANSWER 163 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Spongian pentacyclic diterpenes. Stereoselective synthesis of  
(-)-dendrillol-1

L21 ANSWER 164 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI First synthetic approach to spongian pentacyclic diterpenoids.  
Enantioselective synthesis of dendrillol 1

L21 ANSWER 165 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Total synthesis of 8(S)-, 9(S)-, 11(S)-, and 12(S)-hydroxyeicosatetraenoic  
acids (HETE) methyl esters

L21 ANSWER 166 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Stabilization of denmert fumigant composition

L21 ANSWER 167 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Ammonium and amine salts of diperfluoroalkyl group-containing acids,  
compositions and use thereof

L21 ANSWER 168 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Controlling fungal growth on leather: correlation of  
2-(thiocyanomethylthio)benzothiazole uptake and duration of mold  
resistance

L21 ANSWER 169 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Dieldrin-14C elimination from chickens

L21 ANSWER 170 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Labeling of a new fungicide with tritium and carbon-14. synthesis of  
S-n-butyl S'-p-tert-butylbenzyl N-3-pyridyl-[5-3H]-dithiocarbonimidate  
[Denmert]

L21 ANSWER 171 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Observations on starvation diets and hunger ketosis

=> d 121 150-160 ti

L21 ANSWER 150 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Liquid developer for electrostatography

L21 ANSWER 151 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Fluorinated ketene dithioacetals. 4. Perfluoroketene dithioacetals as  
starting materials for the synthesis of  
 $\alpha$ -trifluoromethyl- $\gamma$ -lactones

L21 ANSWER 152 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic liquid developers with good dispersibility for durable  
offset printing masters

L21 ANSWER 153 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic liquid developers providing rapid electrophotographic  
development-fixation and having good dispersibility and performing well  
even with large master plates

L21 ANSWER 154 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptors

L21 ANSWER 155 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Conjugated diene copolymer latex compositions

L21 ANSWER 156 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrostatographic liquid developer

L21 ANSWER 157 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic liquid developers providing rapid electrophotographic  
development-fixation and having good dispersibility

L21 ANSWER 158 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Development of silver halide photographic material

L21 ANSWER 159 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptor suited for low-power laser scanning

L21 ANSWER 160 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptor using star-type copolymer binder resin

=> d 121 159,160 ti fbib abs

L21 ANSWER 159 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptor suited for low-power laser scanning

AN 1994:284903 CAPLUS

DN 120:284903

OREF 120:50045a,50048a

TI Electrophotographic photoreceptor suited for low-power laser scanning

IN Kato, Eiichi; Ishii, Kazuo

PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 63 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05142797	A	19930611	JP 1991-334539	19911125
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

PATENT FAMILY INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAN	1994:204564				
PI	JP 05107779	A	19930430	JP 1991-291865	19911014
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAN	1994:334824				
PI	JP 05040348	A	19930219	JP 1991-221294	19910807
	JP 3115365	B2	20001204		
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAN	1994:545247				
PI	JP 05072755	A	19930326	JP 1991-260531	19910912
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAN	1994:641718				

PI	JP 06051540	A	19940225	JP 1992-220928	19920729
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

FAN	1994:641719				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 06051541	A	19940225	JP 1992-224563	19920803
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB In the title electrophotog. photoreceptor with a photoconductor layer comprising at least an inorg. photoconductive material, a spectral sensitizing dye, and a binder resin, the binder resin is made up of  $\geq 1$  resin (a) and  $\geq 1$  resin (b). The resin (a) is an A-B graft copolymer containing  $\geq 1$  monofunctional macromonomer comprised of the A block polymer component with weight average mol. weight 1000-20,000 containing

P03H2, COOH, SO3H, phenolic OH, P(:O)(OH)R1 [R1 = hydrocarbon, OR2; R2 = hydrocarbon], and/or cyclic anhydride and the B block polymer component containing at least [a1HC-Ca2(V1-R3)] [a1,2 = H, halo, cyano, hydrocarbon; V1 = COO, OCO, (CH2)aOCO, (CH2)aCOO, O, SO2, CO, CON(Z1), SON(Z1), CONHCOO, V1 = CONHCONH, C6H4; a = 1-3; Z1 = H, hydrocarbon; R3 = hydrocarbon; when V1 = C6H4, R3 = H or hydrocarbon], in which the backbone of the B block is terminated with a polymerizable double bond. The resin (b) is an A-B block star copolymer containing the A block [b1HC-Cb2(COOR4)] [b1,2 = H, halo, cyano, hydrocarbon; R4 = hydrocarbon] with weight average mol. weight 20,000-1,000,000 and the B block polymer component containing  $\geq 1$  polar moiety selected from P03H2, SO3H, COOH, P(:O)(OH)R1, and cyclic anhydride, in which the A-B block copolymers are bonded at  $\geq 3$  sites of an organic mol.

L21 ANSWER 160 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptor using star-type copolymer binder resin

AN 1994:231896 CAPLUS

DN 120:231896

OREF 120:40849a, 40852a

TI Electrophotographic photoreceptor using star-type copolymer binder resin

IN Kato, Eiichi; Ishii, Kazuo

PA Fujii Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 05034941	A	19930212	JP 1991-208900	19910726
	JP 3112713	B2	20001127		

AB In the title photoreceptor comprising a photoconductive layer containing at least an inorg. photo-conductive material, a spectrally sensitizing dye, and a binder resin, the above binder resin contains  $\geq 1$  star-type copolymer resin(A) comprising  $\geq 3$  A-B block polymeric chains bonded to 1 organic mol.. The above A-B block polymeric chain is based on an A block containing structure repeating unit  $\text{CHa1Ca2(CO2R)}$  ( $\text{a1, a2} = \text{H, halo, CN, hydrocarbon}$ ;  $\text{R} = \text{hydrocarbon}$ ) and a B block containing a monomeric unit having  $\geq 1$  polar group(s) selected from  $\text{PO3H2}$ ,  $\text{SO3H}$ ,  $\text{CO2H}$ ,  $\text{P(O)(OH)R1}$  [ $\text{R1} = \text{hydrocarbon}$ ,  $\text{OR2}$  ( $\text{R2} = \text{hydrocarbon}$ )] and groups containing cyclic acid anhydride. The photoreceptor shows superior electrostatic properties (even under severe conditions) and good mech. properties to give good sharp images, and it is very useful in semiconductor laser scanning-exposure.

=> d 121 139-149 ti

L21 ANSWER 139 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Oxazole derivatives, their production, and use for therapy of IL-6-associated and NO-associated diseases

L21 ANSWER 140 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of thio-AZT and halogen analogs starting from D-xylose

L21 ANSWER 141 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of new perfluoroalkylated bi-tailed anionic, nonionic and dianionic surfactants derived from ethyl 2-chloro-2-(2-(F-alkyl)ethylthio)acetates

L21 ANSWER 142 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of meta-guanidine, urea, thiourea or azacyclic amino benzoic acid derivatives as integrin antagonists

L21 ANSWER 143 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Substituted cyclic carbonyls and derivatives thereof useful as retroviral protease inhibitors

L21 ANSWER 144 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Benzo-fused azeponone and piperidinone compounds useful in the inhibition of ACE and NEP.

L21 ANSWER 145 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI 6-Substituted pyrazolo[3,4-d]pyrimidin-4-ones and compositions and methods of use as c-GMP phosphodiesterase inhibitors

L21 ANSWER 146 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI 1-Benzyl-1,3-dihydro-2H-benzimidazol-2-one derivatives, their preparation, and pharmaceutical compositions containing them as vasopressin and/or oxytocin receptor ligands.

L21 ANSWER 147 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Novel synthesis of  $\gamma$ -lactones starting from  $\beta,\gamma$ -unsaturated carboxylic esters

L21 ANSWER 148 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Pyrimidine acyclonucleoside derivatives useful as antivirals

L21 ANSWER 149 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN

TI Phenethylamine compounds with phosphodiesterase IV inhibiting activity

=> d 121 128-138 ti

- L21 ANSWER 128 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Use of pyridinylaminoalkyl- and imidazolylalkyl-substituted thioureas, isothioureas, and guanidines as somatostatin agonists and antagonists, for treating diseases related to the eye
- L21 ANSWER 129 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Synthesis of defined polymers by reversible addition-fragmentation chain transfer: the RAFT process
- L21 ANSWER 130 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Preparation of 5-selenopentopyranose sugars from pentose starting materials by samarium(II) iodide or (phenylseleno)formate mediated ring closures
- L21 ANSWER 131 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Methods and agents for modulating the immune response and inflammation involving monocyte and dendritic cell membrane proteins
- L21 ANSWER 132 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Samarium(II) iodide mediated intramolecular homolytic substitution at selenium: preparation of 5-seleno-D-pentopyranose sugars from common pentose starting materials
- L21 ANSWER 133 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Oil based ink for making lithographic printing plate according to ink-jet printing process
- L21 ANSWER 134 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Storage-stable starch adhesives and paper coatings using the same
- L21 ANSWER 135 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Industrial synergistic microbicides containing dibromonitroethanol, methylenebis(thiocyanate), and bromoacetates
- L21 ANSWER 136 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI New kind of neurotoxic insecticide-Sai Chong Quan
- L21 ANSWER 137 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI H, 13C and 15N NMR studies on the  $\pi$ -electron distribution and intramolecular mobility of aminobuta-1,3-dienes
- L21 ANSWER 138 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Benzoxazinone and benzopyrimidinone piperidinyl tocolytic oxytocin receptor antagonists

=> d 121 129 ti fbib abs

- L21 ANSWER 129 OF 171 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Synthesis of defined polymers by reversible addition-fragmentation chain transfer: the RAFT process  
AN 2000:610043 CAPLUS  
DN 133:322211  
TI Synthesis of defined polymers by reversible addition-fragmentation chain transfer: the RAFT process  
AU Rizzardo, Ezio; Chiefari, John; Mayadunne, Roshan T. A.; Moad, Graeme; Thang, San H.  
CS CSIRO Molecular Science, Clayton South MDC, 3169, Australia  
SO ACS Symposium Series (2000), 768(Controlled/Living Radical Polymerization), 278-296



CODEN: ACSMC8; ISSN: 0097-6156

PB American Chemical Society

DT Journal

LA English

AB Free radical polymerization in the presence of thiocarbonylthio compds. of general structure Z-C(=S)S-R provides living polymers of predetd. mol. weight and narrow mol. weight distribution by a process of reversible addition-fragmentation chain transfer. A rationale for selecting the most appropriate thiocarbonylthio compds. for a particular monomer type is presented with reference to the polymerization of methacrylates, styrenes, acrylates,

acrylamides and vinyl acetate. The efficacy of the process is further demonstrated by the synthesis of narrow polydispersity polystyrene-block-poly(Me acrylate)-block-polystyrene and 4-armed star polystyrene.

OSC.G 185 THERE ARE 185 CAPLUS RECORDS THAT CITE THIS RECORD (188 CITINGS)

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> save temp all thiosrch/a

'THIOSRCH/A' IS NOT ALLOWED WITH ALL

The saved name of an L# list must end with '/L'.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	44.01	666.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.55	-4.25

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 06:28:26 ON 14 MAY 2010

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 07:21:04 ON 14 MAY 2010  
FILE 'CAPLUS' ENTERED AT 07:21:04 ON 14 MAY 2010  
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	44.01	666.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.55	-4.25

=>

=> d his

(FILE 'HOME' ENTERED AT 05:47:13 ON 14 MAY 2010)

FILE 'REGISTRY' ENTERED AT 05:47:48 ON 14 MAY 2010

L1           STRUCTURE UPLOADED  
L2           0 SEARCH L1 SSS SAM  
L3           0 SEARCH L1 SSS FULL  
L4           STRUCTURE UPLOADED  
L5           0 SEARCH L4 SSS SAM  
L6           1 SEARCH L4 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:01:57 ON 14 MAY 2010

L7           1 L6  
L8       618641 THIO?  
L9       17009 DENDRIMER  
L10      1032164 DENDRON OR STAR? OR DENDR?  
L11      1032164 L9 OR L10  
L12      22888 L8 AND L11  
L13      2032 THIOACETAL  
L14      71 L12 AND L13  
L15      27 L13(L)L11

FILE 'REGISTRY' ENTERED AT 06:13:23 ON 14 MAY 2010

L16           STRUCTURE UPLOADED  
L17           50 SEARCH L16 SSS SAM  
L18       45845 SEARCH L16 SSS FULL  
          SAVE TEMP L18 THIOCORE/A

FILE 'CAPLUS' ENTERED AT 06:16:17 ON 14 MAY 2010

L19      23329 L18  
L20      1109 L11 AND L19  
L21      171 L11 (L) L19

=> acetal  
      53874 ACETAL  
      27441 ACETALS  
L22      66784 ACETAL  
          (ACETAL OR ACETALS)

=> l11(l)l22  
L23      1758 L11(L)L22

=> photo?  
L24      1761105 PHOTO?

=> l23 and l34  
L34 NOT FOUND  
The L-number entered could not be found. To see the definition  
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> l23 and l24  
L25      71 L23 AND L24

=> d l25 61-71 ti

L25   ANSWER 61 OF 71   CAPLUS   COPYRIGHT 2010 ACS on STN  
TI   Heat-sensitive copying material

L25   ANSWER 62 OF 71   CAPLUS   COPYRIGHT 2010 ACS on STN  
TI   Interaction of starch anilides with photographic gelatin

L25   ANSWER 63 OF 71   CAPLUS   COPYRIGHT 2010 ACS on STN  
TI   Interaction of poly(vinyl acetal) of 2,4-disulfobenzaldehyde with gelatin

L25 ANSWER 64 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Photosensitive sheets

L25 ANSWER 65 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Papers used for protection of photosensitive products, such as  
 reels of photographic film

L25 ANSWER 66 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Cyanoacetamidophthalic acid esters of polymers as gelatin substitutes in  
 photographic emulsions

L25 ANSWER 67 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Gelling of water-soluble, hydrophilic, hydroxyl-containing polymers

L25 ANSWER 68 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Penicillamine, its analogs and homologs

L25 ANSWER 69 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Vinyl resins. IV. Solutions and the film-forming process

L25 ANSWER 70 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Polyvinyl acetal resins

L25 ANSWER 71 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Photographic products

=> d 125 70 ti fbib abs

L25 ANSWER 70 OF 71 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Polyvinyl acetal resins  
 AN 1938:51295 CAPLUS  
 DN 32:51295  
 OREF 32:7163e-i  
 TI Polyvinyl acetal resins  
 PA Eastman Kodak Co.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 483222		19380408	GB 1936-18987	19360708

AB Resins are prepared by treating a partially or substantially completely  
 hydrolyzed polyvinyl ester (other than formate) or polyvinyl alc.,  
 preferably in the presence of an acid acetalysis catalyst, with  
 butyraldehyde and 1 or more of the substances, CH<sub>2</sub>O, AcH, propionaldehyde  
 and cyclohexanone and its derivs., either simultaneously or successively  
 under such conditions that the acetal portion of the product  
 contains 10-80% of butyraldehyde acetal. The CO-containing  
 substances may be replaced by substances that yield them, e. g.,  
 paraldehyde, acetaldehyde diethyl acetal, (CH<sub>2</sub>O)<sub>3</sub>, cyclohexanone  
 diethyl acetal. When cyclohexanone is used, the reaction medium  
 is preferably anhydrous. The resulting resins may be separated by  
 precipitation or  
 steam-distillation, which may be followed by precipitation and washing. The  
 products  
 may be dehydroxylated by esterification or etherification or may be  
 deesterified. The resins may be plasticized. They may be pressed into  
 blocks and skived to laminae for preparing laminated glass, cellulose nitrate  
 or acetate or wood; made into films by coating a solution of the resin onto a  
 glass or metal plate or a revolving drum, evaporating, stripping and curing by

heating with warm air, or into threads or films by extrusion; they may be used as lacquers or varnishes; to impregnate fabrics or wood; to insulate elec. conductors; as antihalation, antistatic and anticurling backings for photographic films; as adhesives; as overcoatings for photographic films; as wetting, dispersing and sizing agents. In Brit. 483,223, Apr. 8, 1938, the butyraldehyde is replaced by a cyclic aldehyde, e. g., BzH or furfural, and the proportion thereof is such that the acetal portion of the product contains not more than 25% by mols. of cyclic aldehyde acetal. As in 483,222, when polyvinyl alc. is used as starting material it may be suspended in a solvent for the product, e. g., iso-PrOH or other lower aliphatic alc., C6H6, heptane, the aldehyde mixture together with the catalyst being added thereto, but a polyvinyl ester is preferably used as starting material and the reaction conducted in the presence of a deesterifying agent.

```
=> dendr? or star
      113721 DENDR?
      113603 STAR
      108749 STARS
      144014 STAR
              (STAR OR STARS)
L26    256509 DENDR? OR STAR

=> l25 and l26
L27    6 L25 AND L26

=> d l27 1-6 ti

L27    ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     Synthesis, characterization and protein binding properties of supported
      dendrons

L27    ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     The convergent synthesis of poly(glycerol-succinic acid) dendritic
      macromolecules

L27    ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     Molecular resists with t-butyl cholate as a dendrimer core

L27    ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     Synthesis and Characterization of Poly(glycerol-succinic acid)
      Dendrimers

L27    ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     TADDOLs, their derivatives, and TADDOL analogs: versatile chiral
      auxiliaries

L27    ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     Phosphate-based dendrimers for bioassays

=> d l27 1-5 ti fbib abs

L27    ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
TI     Synthesis, characterization and protein binding properties of supported
      dendrons
AN     2009:1075006 CAPLUS
DN     151:464881
TI     Synthesis, characterization and protein binding properties of supported
      dendrons
```

AU Iliashevsky, Olga; Amir, Liron; Glaser, Robert; Marks, Robert S.; Lemcoff, N. Gabriel  
 CS Department of Chemistry, Ben-Gurion University of the Negev, Beer Sheva, 84105, Israel  
 SO Journal of Materials Chemistry (2009), 19(36), 6616-6622  
 CODEN: JMACEP; ISSN: 0959-9428  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 OS CASREACT 151:464881  
 AB Novel benzyl-ether type aldehyde and acetal terminated dendrons were synthesized and attached to a silica gel support; a linear spacer was also introduced as a control material. The supported dendritic compds. were mainly characterized by solid state <sup>13</sup>C CP-MAS NMR, elemental anal. and XPS and the presence of free aldehydes was determined by the Purpald test. Bovine serum albumin (BSA) protein was coupled to the dendronized support by imine bond formation, followed by irreversible reduction of the carbon-nitrogen double bond. A significant pos. dendritic effect was observed on the antibody binding capacity of immobilized BSA as measured by fluorescence immunoassay (FIA).  
 RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI The convergent synthesis of poly(glycerol-succinic acid) dendritic macromolecules  
 AN 2003:967066 CAPLUS  
 DN 140:146604  
 TI The convergent synthesis of poly(glycerol-succinic acid) dendritic macromolecules  
 AU Luman, Nathanael R.; Smets, Kimberly A.; Grinstaff, Mark W.  
 CS Departments of Chemistry and Biomedical Engineering, Duke University, Boston, MA, 02215, USA  
 SO Chemistry--A European Journal (2003), 9(22), 5618-5626  
 CODEN: CEUJED; ISSN: 0947-6539  
 PB Wiley-VCH Verlag GmbH & Co. KGaA  
 DT Journal  
 LA English  
 AB The high-yield convergent synthesis of dendrons, dendrimers, and dendritic-linear hybrid macromols. composed of succinic acid, glycerol, and poly(ethylene glycol) (PEG) is described. This convergent synthesis relies on two orthogonal protecting groups; namely, the benzylidene acetal (bzld) for the protection of the 1,3-hydroxyls of glycerol and the tert-butyldiphenylsilyl (TBDPS) ester for protection of the carboxylic acid of succinic acid. These novel polyester dendritic macromols. are composed entirely of building blocks known to be bio-compatible or degradable in vivo to give natural metabolites. Derivatization of the dendritic periphery with a methacrylate affords a polymer that can be subsequently photo-cross-linked. The three-dimensional cross-linked gels formed by UV irradiation are optically transparent, with mech. properties dependent on the initial cross-linkable dendritic macromol.  
 OSC.G 30 THERE ARE 30 CAPLUS RECORDS THAT CITE THIS RECORD (31 CITINGS)  
 RE.CNT 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Molecular resists with t-butyl cholate as a dendrimer core  
 AN 2002:799416 CAPLUS  
 DN 138:392961  
 TI Molecular resists with t-butyl cholate as a dendrimer core  
 AU Kim, Jin-Baek; Oh, Tae Hwan; Kwon, Young-Gil

CS Dep. Chem., Sch. Mol. Sci., Cent. Adv. Functional Polymers, Korea Advanced  
Institute of Science and Technology, Daejeon, 305-701, S. Korea

SO Proceedings of SPIE-The International Society for Optical Engineering  
(2002), 4690(Pt. 1, Advances in Resist Technology and Processing XIX),  
549-556  
CODEN: PSISDG; ISSN: 0277-786X

PB SPIE-The International Society for Optical Engineering  
DT Journal  
LA English  
AB Cholate derivs. as dendrimer cores containing ester groups as  
peripheral parts were synthesized for application in photoresists  
formulation for 193 nm lithog. Cholate derivs. provided etch resistance  
and peripheral parts provided coatibility and acid-labile polarity change.  
They were synthesized using an acetal-protected anhydride derivative  
of 2,2-bis(hydroxymethyl)propanoic acid as an acylating reagent. These  
dendrimer materials were grown to the 1st generation. The  
tert-butoxy esters were attached to the end of peripheral parts for  
pos.-tone resists. These mol. resist materials were coated on the silicon  
wafer and showed good sensitivity and etch resistance.

OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis and Characterization of Poly(glycerol-succinic acid)  
Dendrimers

AN 2001:752077 CAPLUS  
DN 136:6467

TI Synthesis and Characterization of Poly(glycerol-succinic acid)  
Dendrimers

AU Carnahan, Michael A.; Grinstaff, Mark W.  
CS Departments of Chemistry and Ophthalmology Paul M. Gross Chemical  
Laboratory, Duke University and Duke Medical Center, Durham, NC, 27708,  
USA

SO Macromolecules (2001), 34(22), 7648-7655  
CODEN: MAMOBX; ISSN: 0024-9297

PB American Chemical Society  
DT Journal  
LA English  
AB The syntheses of novel dendrimers composed of glycerol and  
succinic acid are described. These "bi dendrimers" are composed entirely  
of building blocks known to be biocompatible or degradable in vivo to  
natural metabolites and are prepared using a high yield divergent approach.  
Moreover, the synthetic strategy used is amenable to the design and  
development of new materials as demonstrated by the attachment of a  
photopolymerizable group.

OSC.G 40 THERE ARE 40 CAPLUS RECORDS THAT CITE THIS RECORD (40 CITINGS)  
RE.CNT 83 THERE ARE 83 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN

TI TADDOLs, their derivatives, and TADDOL analogs: versatile chiral  
auxiliaries

AN 2001:53639 CAPLUS  
DN 134:251921

TI TADDOLs, their derivatives, and TADDOL analogs: versatile chiral  
auxiliaries

AU Seebach, Dieter; Beck, Albert K.; Heckel, Alexander  
CS Lab. Org. Chem., Eidg. Tech. Hochschule, ETH Zent., Zurich, 8092, Switz.  
SO Angewandte Chemie, International Edition (2001), 40(1), 92-138  
CODEN: ACIEF5; ISSN: 1433-7851

PB Wiley-VCH Verlag GmbH

DT Journal; General Review

LA English

AB Review with >467 refs. TADDOLs, which contain two adjacent diarylhydroxymethyl groups in a trans relationship on a 1,3-dioxolane ring, can be prepared from acetals or ketals of tartrate esters by reaction of the latter with aromatic Grignard reagents. They are extraordinarily versatile chiral auxiliaries. Here, a historical review of the subject is followed by discussion of the preparation of TADDOLs and analogous systems, including TADDOLs with N-, P-, O-, and S-heteroatom ligands appropriate for metals. Crystal structure anal. reveals that the heteroatoms on the diarylmethyl groups are almost always in close proximity to each other, joined together by H-bonds, and predisposed to form chelate complexes in which the metallic centers reside in propeller-like chiral environments. Applications of TADDOL derivs. in enantioselective synthesis extend from utilization as stoichiometric chiral reagents or in Lewis acid mediated reactions, to roles in catalytic hydrogenation and stereoregular metathesis polymerization Derivs. and complexes

based on the following metals have so far been investigated: Li, B, Mg, Al, Si, Cu, Zn, Ce, Ti, Zr, Mo, Rh, Ir, Pd, Pt. The number of stereoselective reactions already accomplished with TADDOLs is correspondingly large. It is also easy to prepare TADDOL derivs. that are readily polymerizable and graftable, and to transform them into immobilized solid-phase catalysts. The result is catalysts, simply or dendritically immobilized in polystyrene or on silica gel and characterized by unexpected stability even after multiple use in titanium TADDOLate mediated reactions. TADDOLs show further unusual characteristics that make them useful for applications in material science and supramol. chemical: they are the most effective doping agents known for phase transformations of achiral (nematic) into chiral (cholesteric) liquid crystals. The TADDOL OH group that is not involved in intramol. H-bonding shows a strong tendency to associate intermolecularly with H-bond acceptors. In the process of crystallization this leads, enantioselectively, to the formation of inclusion compds. that lend themselves to the separation of racemic mixts. not otherwise suited to the classical method of crystallization through diastereomeric salts. The high m.ps. of TADDOLs even make possible the resolution of racemates by distillation Host-guest compds. formed between TADDOLs

and achiral partners can serve as platforms for enantioselective photoreactions. It seems safe to predict that many more applications will be discovered for the TADDOLs and their derivs. OSC.G 267 THERE ARE 267 CAPLUS RECORDS THAT CITE THIS RECORD (271 CITINGS)  
RE.CNT 554 THERE ARE 554 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> 126(1) 119

L28 71 L26(L) L19

=> photo

132261 PHOTO

2510 PHOTOS

L29

134617 PHOTO

(PHOTO OR PHOTOS)

=> photo?

L30 1761105 PHOTO?

75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> 128 and 130

L31 8 L28 AND L30

=> d 131 1-8 ti

L31 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Synthesis of thermo-responsive 4-arm star-shaped porphyrin-centered poly(N,N-diethylacrylamide) via reversible addition-fragmentation chain transfer radical polymerization

L31 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrophotographic photoreceptors

L31 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrostatographic liquid developer

L31 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrophotographic photoreceptor suited for low-power laser scanning

L31 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrophotographic photoreceptor using star-type copolymer binder resin

L31 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Electrophotographic material for color proofing

L31 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Spongian pentacyclic diterpenes. Stereoselective synthesis of (-)-dendrillol-1

L31 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI First synthetic approach to spongian pentacyclic diterpenoids. Enantioselective synthesis of dendrillol 1

=> d 131 1-8 ti fbib abs

L31 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Synthesis of thermo-responsive 4-arm star-shaped porphyrin-centered poly(N,N-diethylacrylamide) via reversible addition-fragmentation chain transfer radical polymerization

AN 2009:1485774 CAPLUS

DN 152:169515

TI Synthesis of thermo-responsive 4-arm star-shaped porphyrin-centered poly(N,N-diethylacrylamide) via reversible addition-fragmentation chain transfer radical polymerization

AU Yusa, Shin-Ichi; Endo, Tastyu; Ito, Masanori

CS Department of Materials Science and Chemistry, Graduate School of Engineering, University of Hyogo, 2167 Shosha, Himeji, Hyogo, 671-2280, Japan

SO Journal of Polymer Science, Part A: Polymer Chemistry (2009), 47(24), 6827-6838

CODEN: JPACEC; ISSN: 0887-624X

PB John Wiley & Sons, Inc.

DT Journal

LA English

OS CASREACT 152:169515

AB Tetrafunctional porphyrins-containing trithiocarbonate groups were synthesized by an ordinary esterification method. This tetrafunctional porphyrin (TPP-CTA) could be used as a chain transfer agent in a controlled reversible addition-fragmentation chain transfer (RAFT) radical polymerization

to prepare well-defined 4-arm star-shaped polymers. N,N-Diethylacrylamide was



polymerized using TPP-CTA in 1,4-dioxane. Poly(N,N-diethylacrylamide) (PDEA) is known to be a thermo-responsive polymer, and exhibits a lower critical solution temperature (LCST) in water. The star-shaped PDEA polymer (TPP-PDEA)

was

therefore also thermo-responsive, as expected. The LCST of this polymer depended on its concentration in water, as confirmed by turbidity, dynamic

light

scattering (DLS), static light scattering (SLS), and <sup>1</sup>H NMR measurements. The porphyrin cores were compartmentalized in PDEA shells in aqueous media. Below the LCST, the fluorescence intensity of TPP-PDEA was about six times larger than that of a water-soluble low mol. weight porphyrin compound (TSPP), whose fluorescence intensity was independent of temperature. Above the LCST,

the

fluorescence intensity of TPP-PDEA decreased, while the intensity was about three times higher than that of TSPP. These observations suggested that interpolymer aggregation occurred due to the hydrophobic interactions of the dehydrated PDEA arm chains above the LCST, with self-quenching of the porphyrin moieties arising from these interactions. .COPYRGHT. 2009 Wiley Periodicals, Inc. J Polym Sci Part A: Polym Chem, 2009.

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic photoreceptors

AN 1995:446441 CAPLUS

DN 122:201134

OREF 122:36519a,36518a

TI Electrophotographic photoreceptors

IN Kato, Eiichi; Ishii, Kazuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 91 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06175379	A	19940624	JP 1992-349987 JP 1992-349987	19921203 19921203

AB The title receptors producing sharp images with liquid developers and suitable for low-power laser scanning exposure contain a photoconductive layer containing inorg. photoconductors, spectral sensitizers, and binder resins comprising (A) graft copolymers (Mw 1 + 103 to 2 + 104) from macromonomer(s) (Mw 1000-15000) chosen from CH(f1):C(f2)X1Y1CO2(Z1O2CZ2CO2)R31, CH(f1):C(f2)X1Y1CO2(Z3CO2)R31, CH(f1):C(f2)X2Y2V1(OCZ1CO2Z2O)R32, CH(f1):C(f2)X2Y2V1(OCZ3O)R32, and CH(f1):C(f2)X3Y3O(WO)R33 and (B) star block copolymers of ≥3 A-B block copolymer chains (Mw 2 + 104 to 1 + 106) of block A containing monomer(s) containing polar group(s) chosen from PO3H2, SO3H, CO2H, P(O)(OH)R1 (R1 = hydrocarbyl, hydrocarbyloxy), and cyclic acid anhydride group and block B of ≥30% CH(b1)C(b2)CO2R4 unit (I) (b1, b2 = H, halogen, cyano, hydrocarbyl; R4 = hydrocarbyl) with polar group content 0.01-10%, and/or (C) star polymers (Mw 2 + 104 to 1 + 106) of organic mols. bonded to ≥3 I polymer chains whose free ends are bonded to polymer components having polar groups as in the above polymer B to polar group content 0.01-10% and I content ≥30%. In the formulas, f1, f2 = H, halogen, cyano, C1-8 hydrocarbyl, CO2T1 with or without a linker; T1 = C1-18 hydrocarbyl; X1-3 = direct bond, CO2, O2C, (CH2)αCO2, (CH2)βO2C, CON(k1), CONHCONH, CONHCO2, O, C6H4, SO2; α, β = 1-3; k1 = H, C1-12 hydrocarbyl; Y1, Y2, Y3 = linking group; Z1, Z2 = divalent hydrocarbyl or aromatic group with or without O, S, N(k2), SO2, CO2, O2C, CONHCO, NHCONH,

CON(k2), SO2N(k2), S(k2)(k3); k2, k3 as defined for k1; R31 = H, hydrocarbyl; Z3 = divalent aliphatic group; V1 = CH2, O, NH; R32, R33 = H, hydrocarbyl, COR34; R34 = hydrocarbyl;  $\alpha$  = 1-3; W = CH( $\alpha$ 1)CH( $\alpha$ 2), (CH2)4;  $\alpha$ 1,  $\alpha$ 2 = H, alkyl.

L31 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrostatographic liquid developer

AN 1995:370728 CAPLUS

DN 122:226747

OREF 122:41199a,41202a

TI Electrostatographic liquid developer

IN Kato, Eiichi

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

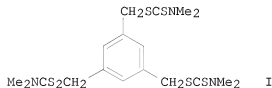
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06289661	A	19941018	JP 1993-96505	19930401
	JP 3300461	B2	20020708		
GI				JP 1993-96505	19930401



AB In the title developer comprising resin particles dispersed in a non-aqueous solvent with elec. resistance  $\geq 109 \Omega \cdot \text{cm}$  and dielec. constant  $\leq 3.5$ , the resin particles are prepared by polym. of a mixture containing (1)  $\geq 1$  monofunctional monomer (A) which is soluble in the solvent but becomes insol. by polymerization, (2)  $\geq 1$  monomer chosen from CHa1:C(a2)U1E1 [E1 = C $\geq$ 8 aliphatic, (A1B1)m(A2B2)nR21; A1, A2 = C1-18 hydrocarbyl which may be substituted or contain CHB3 (A4B4)pR23 in the main chain; B1-4 = O, S, CO, CO2, O2C, SO2, NR22, CONR22, NR22CO, NR22SO2, SO2NR22, NHCO2, NHCONH; A4 = (substituted) C1-18 hydrocarbyl; R21-23 = H, C1-8 aliphatic; m, n, p = 0-4; m = n = p  $\neq$  0; U1 = CO2, CONH, CONE2, O2C, CONHCO2, CH2CO2, (CH2)sO2C, O, C6H4CO2; E2 = aliphatic, (A1B1)m(A2B2)nR21; s = 1-4; a1, a2 = H, alkyl, CO2E3, CH2CO2E3; E3 = aliphatic] which is copolymerizable with the monomer A, and (3)  $\geq 1$  a star-shaped copolymer [weight average mol. weight (Mw) 5 + 103 to 1 + 106] in which  $\geq 3$  polymer components and/or A-B type block polymer components are linked to an organic mol. as a dispersion stabilizer. The star-shaped polymer component has  $\geq 1$  polar group selected from phosphono, carboxyl, sulfo, hydroxyl, formyl, amino, P:(O)(OH)R1 [R1 = hydrocarbyl(oxy)], CONR3R4, SO2NR3R4 (R3, R4 = H, hydrocarbyl), and cyclic acid anhydride group-containing groups. The block A contains the monomer A, the block B contains  $\geq 1$  monomer chosen from CHb1C(b2)X1Y1 [X1 = CO2, O2C, (CH2)xCO2, (CH2)xO2C, O; x = 1-3; Y1 = C $\geq$ 8 aliphatic; b1, b2 = H], halo, cyano, hydrocarbyl, CO2Z1 which may be linked via a hydrocarbyl group [Z1 = H, (substituted) hydrocarbyl], and one of the block A terminal is linked to the organic mol., the other to the block B. The developer shows good dispersibility and printing durability even when used in rapid developing-fixing process and for large size master plates.

Thus, Me methacrylate, Me acrylate, and I were photopolymd. and further photopolymd. with stearyl methacrylate to give an acrylic resin (Mw 6 + 104). A mixture of the resin, Me methacrylate, Me acrylate, and octadecyl acrylate in Isopar H (solvent) was polymerized to give latex particles, from which a liquid developer was prepared

L31 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN  
 TI Electrophotographic photoreceptor suited for low-power laser scanning  
 AN 1994:284903 CAPLUS  
 DN 120:284903  
 OREF 120:50045a,50048a  
 TI Electrophotographic photoreceptor suited for low-power laser scanning  
 IN Kato, Eiichi; Ishii, Kazuo  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 63 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05142797	A	19930611	JP 1991-334539	19911125
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

PATENT FAMILY INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05107779	A	19930430	JP 1991-291865	19911014
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05040348	A	19930219	JP 1991-221294	19910807
	JP 3115365	B2	20001204		
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

FAN 1994:545247

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05072755	A	19930326	JP 1991-260531	19910912
	US 5580690	A	19961203	US 1994-357150	19941215
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				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602
FAN	1994:641718				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06051540	A	19940225	JP 1992-220928	19920729
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
				JP 1991-291865	A 19911014
				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602
FAN	1994:641719				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06051541	A	19940225	JP 1992-224563	19920803
	US 5580690	A	19961203	US 1994-357150	19941215
				JP 1991-221294	A 19910807
				JP 1991-260531	A 19910912
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				JP 1991-334539	A 19911125
				JP 1992-220928	A 19920729
				JP 1992-224563	A 19920803
				US 1993-39138	B2 19930407
				US 1993-70540	B1 19930602

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB In the title electrophotog. photoreceptor with a photoconductor layer comprising at least an inorg. photoconductive material, a spectral sensitizing dye, and a binder resin, the binder resin is made up of  $\geq 1$  resin (a) and  $\geq 1$  resin (b). The resin (a) is an A-B graft copolymer containing  $\geq 1$  monofunctional macromonomer comprised of the A block polymer component with weight average mol. weight 1000-20,000 containing PO3H2, COOH, SO3H, phenolic OH, P(:O)(OH)R1 [R1 = hydrocarbon, OR2; R2 = hydrocarbon], and/or cyclic anhydride and the B block polymer component containing at least [a1HC-Ca2(V1-R3)] [a1,2 = H, halo, cyano, hydrocarbon; V1 = COO, OCO, (CH2)aOCO, (CH2)aCOO, O, SO2, CO, CON(Z1), SON(Z1), CONHCOO, CONHCONH, C6H4; a = 1-3; Z1 = H, hydrocarbon; R3 = hydrocarbon; when V1 = C6H4, R3 = H or hydrocarbon], in which the backbone of the B block is terminated with a polymerizable double bond. The resin (b) is an A-B block star copolymer containing the A block [b1HC-Cb2(COOR4)] [b1,2 = H, halo, cyano, hydrocarbon; R4 = hydrocarbon] with weight average mol. weight 20,000-1,000,000 and the B block polymer component containing  $\geq 1$  polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R1, and cyclic anhydride, in which the A-B block copolymers are bonded at  $\geq 3$  sites of an organic mol.

TI Electrophotographic photoreceptor using star-type copolymer  
binder resin  
AN 1994:231896 CAPLUS  
DN 120:231896  
OREF 120:40849a,40852a  
TI Electrophotographic photoreceptor using star-type copolymer  
binder resin  
IN Kato, Eiichi; Ishii, Kazuo  
PA Fuji Photo Film Co Ltd, Japan  
SO Jpn. Kokai Tokkyo Koho, 53 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05034941	A	19930212	JP 1991-208900	19910726
	JP 3112713	B2	20001127		
				JP 1991-208900	19910726

AB In the title photoreceptor comprising a photoconductive layer containing at least an inorg. photo-conductive material, a spectrally sensitizing dye, and a binder resin, the above binder resin contains  $\geq 1$  star-type copolymer resin(A) comprising  $\geq 3$  A-B block polymeric chains bonded to 1 organic mol.. The above A-B block polymeric chain is based on an A block containing structure repeating unit  $\text{CHaCa2(CO2R)}$  (a1, a2 = H, halo, CN, hydrocarbon; R = hydrocarbon) and a B block containing a monomeric unit having  $\geq 1$  polar group(s) selected from  $\text{PO3H2}$ ,  $\text{SO3H}$ ,  $\text{CO2H}$ ,  $\text{P(O)(OH)R1}$  [ $\text{R1}$  = hydrocarbon,  $\text{OR2}$  ( $\text{R2}$  = hydrocarbon)] and groups containing cyclic acid anhydride. The photoreceptor shows superior electrostatic properties (even under severe conditions) and good mech. properties to give good sharp images, and it is very useful in semiconductor laser scanning-exposure.

L31 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

TI Electrophotographic material for color proofing  
AN 1993:637954 CAPLUS  
DN 119:237954  
OREF 119:42193a,42196a  
TI Electrophotographic material for color proofing  
IN Kato, Eiichi; Osawa, Sadao  
PA Fuji Photo Film Co., Ltd., Japan  
SO Eur. Pat. Appl., 165 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 534479	A1	19930331	EP 1992-116494	19920925
	EP 534479	B1	19981209		
				JP 1991-249819	A 19910927
				JP 1991-259430	A 19911007
				JP 1991-289648	A 19911106
				JP 1991-289649	A 19911106
				JP 1992-310754	19920928
	JP 05197169	A	19930806	JP 1991-249819	A1 19910927
				JP 1991-259430	A1 19911007
				JP 1991-289648	A1 19911106
				JP 1991-289649	A1 19911106
				US 1994-279068	19940722
	US 5670283	A	19970923	JP 1991-249819	A 19910927

JP 1991-259430	A	19911007
JP 1991-289648	A	19911106
JP 1991-289649	A	19911106
US 1992-952941	B1	19920928

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An electrophotog. material for color proofing comprises a substrate, a photoconductive layer and a transfer layer in this order, and is used for preparing a color proof in a process wherein at least one color toner image is electrophotog. formed on the transfer layer and then transferred together with said transfer layer to a sheet material to prepare the color proof, wherein said photoconductive layer comprises a copolymer and/or a crosslinked polymer particle which contain units having F atom(s) and/or Si atom(s) at least in the region near the surface facing said transfer layer and the surface of said photoconductive layer which contacts with the transfer layer has tack strength of  $\leq 150$  g · force, which is measured by Pressure Sensitive Tape and Sheet Test of JIS Z0237-1980.

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L31 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

TI Spongian pentacyclic diterpenes. Stereoselective synthesis of (-)-dendrillol-1

AN 1992:651580 CAPLUS

DN 117:251580

OREF 117:43571a,43574a

TI Spongian pentacyclic diterpenes. Stereoselective synthesis of (-)-dendrillol-1

AU Abad, Antonio; Arno, Manuel; Cunat, Ana C.; Marin, M. Luisa; Zaragoza, Ramon J.

CS Dep. Quim. Org., Univ. Valencia, Burjasot, 46100, Spain

SO Journal of Organic Chemistry (1992), 57(25), 6861-9

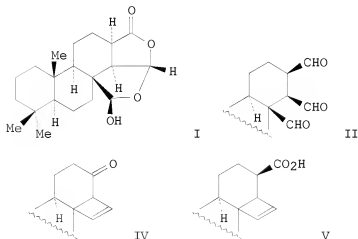
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

OS CASREACT 117:251580

GI



AB A formal total synthesis of the spongian diterpene (-)-dendrillol 1 (I), via a concise approach that can be used for the synthesis of other

pentacyclic spongian diterpenes, is based on the intramol. acetalization of an acid-dialdehyde II, which is prepared from (+)-podocarp-8(14)-en-13-one III via a sequence of transformations involving (a) introduction of a latent dialdehyde unit on III by photochem. reaction with acetylene, (b) reductive carboxylation at C-13 of photoadduct IV to obtain acid V, and (c) elaboration of the dialdehyde moiety at C-8 and C-14 of V by ozonolysis. Several procedures that have been examined for the reductive carboxylation at C-13 of IV are described. A simple three-step procedure to effect the conversion of a podocarp-8-en-13-one system into a C-17-functionalized beyerane compound is also reported.

OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)

L31 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN

TI First synthetic approach to spongian pentacyclic diterpenoids.

Enantioselective synthesis of dendrillol 1

AN 1992:83952 CAPLUS

DN 116:83952

OREF 116:14311a,14314a

TI First synthetic approach to spongian pentacyclic diterpenoids.

Enantioselective synthesis of dendrillol 1

AU Abad, Antonio; Arno, Manuel; Marin, M. Luisa; Zaragoza, Ramon J.

CS Fac. Quim., Univ. Valencia, Burjassot, E-46100, Spain

SO Synlett (1991), (11), 789-91

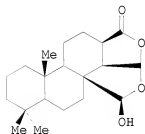
CODEN: SYNLES; ISSN: 0936-5214

DT Journal

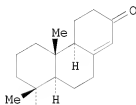
LA English

OS CASREACT 116:83952

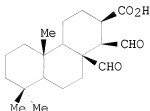
GI



3



5



4

AB The enantioselective synthesis of the spongian diterpene dendrillol 1 (3), from chiral (+)-podocarp-8(14)-en-13-one (5) of known absolute configuration, is described. Key intermediate in this synthesis is the acid-dialdehyde 4

(8,14-diformylpodocarpene-13-carboxylic acid), which was prepared from 5 by a reaction sequence involving photo-addition of acetylene, nucleophilic carboxylation, reductive dehydroxylation, and ozonolysis.  
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	134.57	757.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-14.45	-16.15

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 07:40:03 ON 14 MAY 2010  
Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 08:26:14 ON 14 MAY 2010  
FILE 'CAPLUS' ENTERED AT 08:26:14 ON 14 MAY 2010  
COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	134.57	757.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-14.45	-16.15

=> file reg

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FULL ESTIMATED COST	135.07	757.56
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	ENTRY	SESSION
CA SUBSCRIBER PRICE	-14.45	-16.15

FILE 'REGISTRY' ENTERED AT 08:26:50 ON 14 MAY 2010  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2010 HIGHEST RN 1222633-86-4  
DICTIONARY FILE UPDATES: 12 MAY 2010 HIGHEST RN 1222633-86-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.



TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

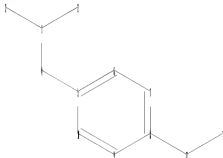
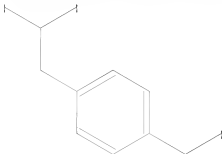
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10594430\10594430 dendron unit.str



```
chain nodes :  
1 2 3 4 11 12  
ring nodes :  
5 6 7 8 9 10  
chain bonds :  
1-3 1-2 1-4 4-5 8-11 11-12  
ring bonds :  
5-6 5-10 6-7 7-8 8-9 9-10  
exact/norm bonds :  
1-3 1-2 11-12  
exact bonds :  
1-4 4-5 8-11  
normalized bonds :  
5-6 5-10 6-7 7-8 8-9 9-10
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Match level :

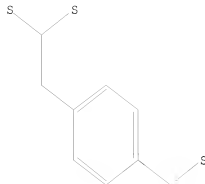
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11:CLASS 12:CLASS
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L32 STRUCTURE UPLOADED

=> d 132

L32 HAS NO ANSWERS

L32 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 132 sdss sam

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> search 132 sss sam

SAMPLE SEARCH INITIATED 08:27:35 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 44 TO 476  
PROJECTED ANSWERS: 0 TO 0

L33 0 SEA SSS SAM L32

=> search 132 sss full

FULL SEARCH INITIATED 08:27:47 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 234 TO ITERATE

100.0% PROCESSED 234 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

L34 0 SEA SSS FUL L32

=> d cost

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	ENTRY	SESSION
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NETWORK CHARGES	0.42	6.30
SEARCH CHARGES	191.05	791.92
DISPLAY CHARGES	0.00	115.08
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CA SUBSCRIBER PRICE

ENTRY

SESSION

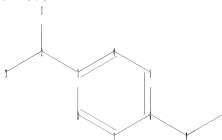
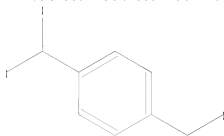
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-16.15

IN FILE 'REGISTRY' AT 08:30:17 ON 14 MAY 2010

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chain nodes :

1 2 9 10 11

ring nodes :

3 4 5 6 7 8

chain bonds :

1-2 2-3 2-11 6-9 9-10

ring bonds :

3-4 3-8 4-5 5-6 6-7 7-8

exact/norm bonds :

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exact bonds :

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normalized bonds :

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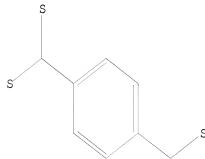
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11:CLASS

L35 STRUCTURE UPLOADED

=> d 135

L35 HAS NO ANSWERS

L35 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l35 sss sam

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SAMPLE SCREEN SEARCH COMPLETED - 44 TO ITERATE

100.0% PROCESSED 44 ITERATIONS

6 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 483 TO 1277

PROJECTED ANSWERS: 6 TO 266

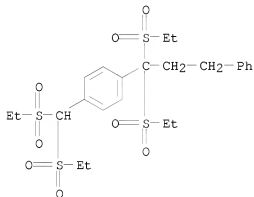
L36 6 SEA SSS SAM L35

=> d scan

L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN Benzene, 1-[bis(ethylsulfonylmethyl)-4-[1,1-bis(ethylsulfonyl)-3-phenylpropyl]-

MF C24 H34 O8 S4



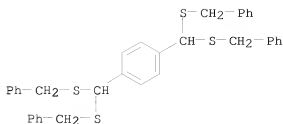
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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):6

L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

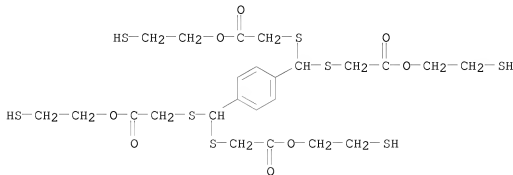
IN Benzene, 1,4-bis[bis[(phenylmethyl)thio]methyl]-

MF C36 H34 S4



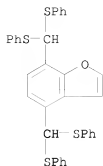
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis(methyldiynebis(thio))]  
 ester (9CI)  
 MF C24 H34 O8 S8  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

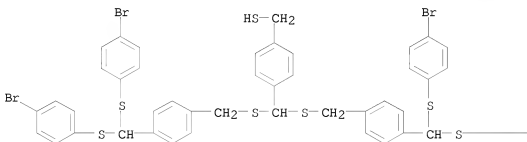
L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzofuran, 4,7-bis[bis(phenylthio)methyl]-  
 MF C34 H26 O S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzenemethanethiol, 4-[bis[[[4-[bis[(4-bromophenyl)thio]methyl]phenyl)methyl]thio]methyl]-  
 MF C48 H38 Br4 S7

PAGE 1-A

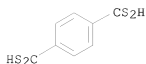


PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L36 6 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid  
 MF C8 H6 S4  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

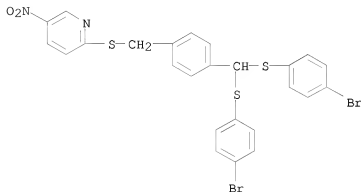
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 FULL SCREEN SEARCH COMPLETED - 838 TO ITERATE

100.0% PROCESSED 838 ITERATIONS 54 ANSWERS  
 SEARCH TIME: 00.00.01

L37 54 SEA SSS FUL L35

=> d scan

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Pyridine, 2-[[[4-[[bis[(4-bromophenyl)thio]methyl]phenyl]methyl]thio]-5-nitro-  
 MF C25 H18 Br2 N2 O2 S3

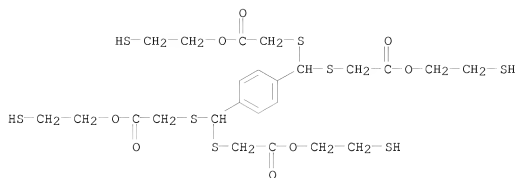


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

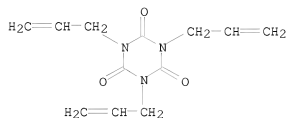
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methyldynebis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester, polymer with 1,3,5-tri-2-propenyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI)  
 MF (C24 H34 O8 S8 . C12 H15 N3 O3)x  
 CI PMS

CM 1



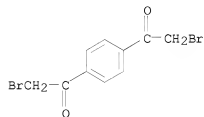
CM 2



L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2), polymer  
 with 1,1'-(1,4-phenylene)bis[2-bromoethanone] (9CI)  
 MF (C10 H8 Br2 O2 . C8 H6 S4 . 2 C5 H11 N)x  
 CI PMS

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

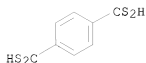
CM 1



CM 2

CM 3



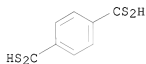


CM 4



L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2)  
 MF C8 H6 S4 . 2 C5 H11 N  
 CI COM

CM 1

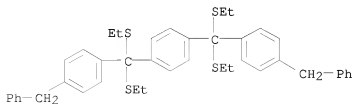


CM 2



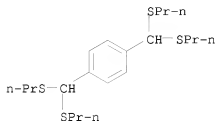
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(ethylthio)[4-(phenylmethyl)phenyl]methyl]-  
 MF C42 H46 S4



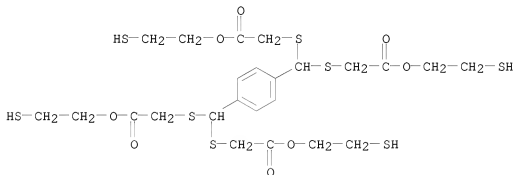
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(propylthio)methyl]-  
 MF C20 H34 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methyldiynebis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester (9CI)  
 MF C24 H34 O8 S8  
 CI COM

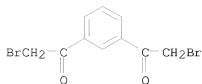


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2), polymer with 1,1'-(1,3-phenylene)bis[2-bromoethanone] (9CI)  
 MF (C10 H8 Br2 O2 . C8 H6 S4 . 2 C5 H11 N)x  
 CI PMS

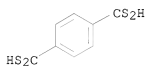
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CM 1



CM 2

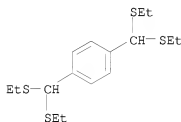
CM 3



CM 4



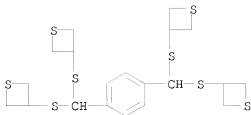
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(ethylthio)methyl]-  
MF C16 H26 S4



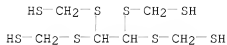
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Methanethiol, [1,2-ethanediylidenetetrakis(thio)]tetrakis-, polymer with  
3,3',3'',3'''-[1,4-phenylenebis[methyldiynebis(thio)]]tetrakis[thietane]  
and sulfur (9CI)  
MF (C20 H26 S8 . C6 H14 S8 . S)x  
CI PMS

CM 1



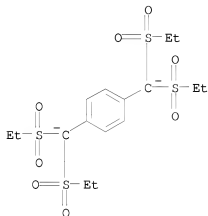
CM 2



CM 3

S

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(ethylsulfonylethyl)methyl]-, ion(2-)  
 MF C16 H24 O8 S4  
 CI COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus  
 'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".  
 HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus  
 COST IN U.S. DOLLARS

SINCE FILE TOTAL  
 ENTRY SESSION

FULL ESTIMATED COST	387.49	1145.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.15

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FILE COVERS 1907 - 14 May 2010 VOL 152 ISS 21  
 FILE LAST UPDATED: 13 May 2010 (20100513/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> L37  
 L38 39 L37

=> d his

(FILE 'HOME' ENTERED AT 05:47:13 ON 14 MAY 2010)

FILE 'REGISTRY' ENTERED AT 05:47:48 ON 14 MAY 2010

L1	STRUCTURE UPLOADED
L2	0 SEARCH L1 SSS SAM
L3	0 SEARCH L1 SSS FULL
L4	STRUCTURE UPLOADED
L5	0 SEARCH L4 SSS SAM
L6	1 SEARCH L4 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:01:57 ON 14 MAY 2010

L7	1 L6
L8	618641 THIO?
L9	17009 DENDRIMER
L10	1032164 DENDRON OR STAR? OR DENDR?
L11	1032164 L9 OR L10
L12	22888 L8 AND L11
L13	2032 THIOACETAL
L14	71 L12 AND L13
L15	27 L13(L)L11

FILE 'REGISTRY' ENTERED AT 06:13:23 ON 14 MAY 2010  
L16 STRUCTURE UPLOADED  
L17 50 SEARCH L16 SSS SAM  
L18 45845 SEARCH L16 SSS FULL  
SAVE TEMP L18 THIOCORE/A

FILE 'CAPLUS' ENTERED AT 06:16:17 ON 14 MAY 2010  
L19 23329 L18  
L20 1109 L11 AND L19  
L21 171 L11 (L) L19  
L22 66784 ACETAL  
L23 1758 L11(L)L22  
L24 1761105 PHOTO?  
L25 71 L23 AND L24  
L26 256509 DENDR? OR STAR  
L27 6 L25 AND L26  
L28 71 L26(L) L19  
L29 134617 PHOTO  
L30 1761105 PHOTO?  
L31 8 L28 AND L30

FILE 'REGISTRY' ENTERED AT 08:26:50 ON 14 MAY 2010  
L32 STRUCTURE UPLOADED  
L33 0 SEARCH L32 SSS SAM  
L34 0 SEARCH L32 SSS FULL  
L35 STRUCTURE UPLOADED  
L36 6 SEARCH L35 SSS SAM  
L37 54 SEARCH L35 SSS FULL

FILE 'CAPLUS' ENTERED AT 08:33:09 ON 14 MAY 2010  
L38 39 L37

=> 124 and 138  
L39 1 L24 AND L38

=> d 139 ti fbib abs

L39 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN  
TI Preparation of multicarbene complexes and their application to synthesis  
of polycyclic aromatic hydrocarbons  
AN 2004:778325 CAPLUS  
DN 143:26306  
TI Preparation of multicarbene complexes and their application to synthesis  
of polycyclic aromatic hydrocarbons  
AU Xu, Song  
CS Department of Applied Chemistry, Tokyo University of Agriculture and  
Technology, Japan  
SO Nippon Kessho Seicho Gakkaishi (2004), 31(3), 184  
CODEN: NKSGDK; ISSN: 0385-6275  
PB Nippon Kessho Seicho Gakkai  
DT Journal  
LA English  
OS CASREACT 143:26306  
GI



I

AB Multicarbenes, derived from multi-thioacetals and a titanocene, underwent condensation with benzophenones or 9-fluorenone to produce conjugated polycyclic aromatic hydrocarbons, e.g., I. The polycyclic aromatic hydrocarbons were obtained in good yields.

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.10	1150.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.85	-17.00

FILE 'REGISTRY' ENTERED AT 08:35:25 ON 14 MAY 2010  
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STRUCTURE FILE UPDATES: 12 MAY 2010 HIGHEST RN 1222633-86-4  
 DICTIONARY FILE UPDATES: 12 MAY 2010 HIGHEST RN 1222633-86-4

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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> e Pyridine,  
 2-(((4-(bis((4-bromophenyl)thio)methyl)phenyl)methyl)thio)-5-nitro-/cn  
 E1 1 PYRIDINE, 2-(((4-(BIS(((4-(BIS(((4-(BIS(((4-BROMOPHENYL)THIO)METHYL)PHENYL)METHYL)THIO)METHYL)THIO)METHYL)THIO)METHYL)THIO)-5-NITRO-/CN

E2 1 PYRIDINE, 2-(((4-(BIS(((4-(BIS((4-BROMOPHENYL)THIO)METHYL)PH  
 ENYL)METHYL)THIO)METHYL)PHENYL)METHYL)THIO)-5-NITRO-/CN  
 E3 1 --> PYRIDINE, 2-(((4-(BIS((4-BROMOPHENYL)THIO)METHYL)PHENYL)METH  
 YL)THIO)-5-NITRO-/CN  
 E4 1 PYRIDINE, 2-(((4-(CHLOROMETHYL)PHENYL)METHYL)THIO)-/CN  
 E5 1 PYRIDINE, 2-(((4-(CYCLOPROPYLMETHYL)-5-(1-METHYL-2-PIPERIDIN  
 YL)-4H-1,2,4-TRIAZOL-3-YL)THIO)METHYL)-/CN  
 E6 1 PYRIDINE, 2-(((4-(CYCLOPROPYLMETHYL)-5-(2-METHOXYPHENYL)-4H-  
 1,2,4-TRIAZOL-3-YL)THIO)METHYL)-/CN  
 E7 1 PYRIDINE, 2-(((4-(CYCLOPROPYLMETHYL)-5-(2-THIENYL)-4H-1,2,4-  
 TRIAZOL-3-YL)THIO)METHYL)-/CN  
 E8 1 PYRIDINE, 2-(((4-(DIFLUOROMETHOXY)-3-METHOXYPHENYL)METHYL)TH  
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 DINYL)SULFONYL)-/CN  
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 IDINYL)SULFONYL)-/CN  
 E11 1 PYRIDINE, 2-(((4-(PHENYLMETHOXY)PHENYL)METHYL)THIO)-/CN  
 E12 1 PYRIDINE, 2-(((4-(PHENYLMETHOXY)PHENYL)METHYL)THIO)-, HYDROC  
 HLORIDE/CN

=> e3

L40 1 "PYRIDINE, 2-(((4-(BIS(((4-BROMOPHENYL)THIO)METHYL)PHENYL)METHYL)  
 THIO)-5-NITRO-/CN

=> file caplus

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-17.00

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FILE COVERS 1907 - 14 May 2010 VOL 152 ISS 21  
 FILE LAST UPDATED: 13 May 2010 (20100513/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2010  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2010

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=> 140

L41 1 L40

=> d l41 ti fbib abs

L41 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2010 ACS on STN

TI Dendrons and dendrimers having thioacetal linkages and method of producing the same

AN 2005:1075768 CAPLUS

DN 143:367755

TI Dendrons and dendrimers having thioacetal linkages and method of producing the same

IN Nakamura, Koki

PA Fuji Photo Film Co., Ltd., Japan

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005092847	A1	20051006	WO 2005-JP6545	20050328
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	JP 2005281172	A	20051013	JP 2004-96080	20040329
	EP 1730106	A1	20061213	EP 2005-727688	20050328
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				WO 2005-JP6545	W 20050328
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				JP 2004-96080	A 20040329
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				JP 2004-95408	A 20040329

JP 2004-96073	A	20040329
JP 2004-96080	A	20040329
WO 2005-JP6545	W	20050328

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:367755

AB Dendrons and dendrimers, useful in nanotechnol., electronics, and drug-delivery systems, are manufactured having thioacetal linkages formed by reaction of carbonyl compds. with thiols. Higher yields were obtained in the formation of the thioacetal linkages by using ether, ester, amide, sulfoxide, alc., nitrile, and sulfone as solvents. Thus, reaction of 4-hydroxythiophenol (I) with 2-chloropyridine, reaction of the resulting 2-(4-hydroxyphenylthio)pyridine with 2-bromomethyl-1,3-dioxolane, reaction of the resulting 2-[4-[(1,3-dioxolan-2-yl)methoxy]phenylthio]pyridine with I, reaction of the resulting 2-[4-[2,2-bis(4-hydroxyphenylthio)methoxy]phenylthio]pyridine with 4-[4-(6-bromohexyloxy)phenyl]benzonitrile, reaction of the resulting 2-[[4-[2,2-bis[[4-[6-[4-(4-cyanophenyl)phenoxy]hexyloxy]phenyl]thio]ethoxy]phenyl]thio]pyridine with MeI, reaction of the resulting pyridinium salt with hydrazine hydrate, and reaction of the resulting benzenethiol with tetrakis(3-formylphenoxy)methylmethane core.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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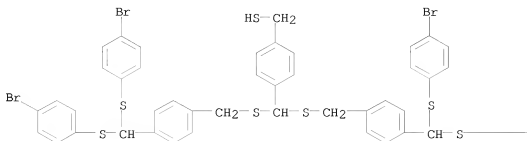
<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d scan 137

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN Benzenemethanethiol, 4-[bis[[[4-[bis(4-bromophenyl)thio)methyl]phenyl)methyl]thio)methyl]-  
 MF C48 H38 Br4 S7

PAGE 1-A



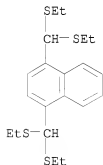
PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

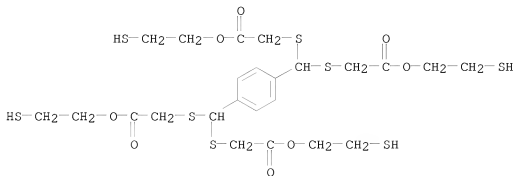
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Naphthalene, 1,4-bis[bis(ethylthio)methyl]-  
 MF C20 H28 S4



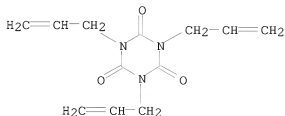
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L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

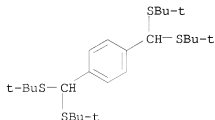
IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methylidynebis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester, polymer with 1,3,5-tri-2-propenyl-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI)  
 MF (C24 H34 O8 S8 . C12 H15 N3 O3)x  
 CI PMS  
 CM 1



CM 2

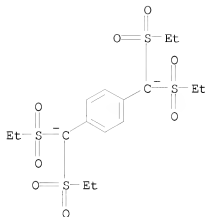


L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis[(1,1-dimethylethyl)thio]methyl]-  
 MF C24 H42 S4



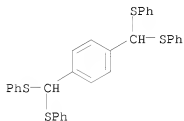
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Potassium, [p-phenylenebis[bis(ethylsulfonyl)methylene]]di- (7CI)  
 MF C16 H24 O8 S4 . 2 K



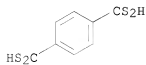
● 2 K<sup>+</sup>

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(phenylthio)methyl]-  
MF C32 H26 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

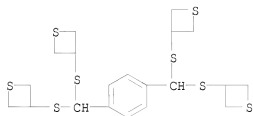
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN 1,4-Benzenedicarbodithioic acid  
MF C8 H6 S4  
CI COM



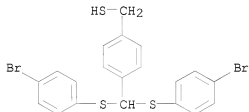
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Thietane, 3,3',3'',3'''-[1,4-phenylenebis[methylidynebis(thio)]]tetrakis-,  
homopolymer (9CI)

MF (C20 H26 S8)x  
 CI PMS  
 CM 1

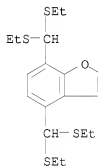


L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzenemethanethiol, 4-[bis(4-bromophenyl)thio]methyl-  
 MF C20 H16 Br2 S3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

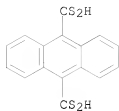
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzo[1,2-b:4,5-b']difuran, 4,7-bis[bis(ethylthio)methyl]-  
 MF C18 H26 O S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 9,10-Anthracenedicarboxylic acid, compd. with piperidine (1:2) (9CI)  
 MF C16 H10 S4 . 2 C5 H11 N

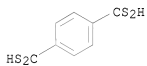
CM 1



CM 2



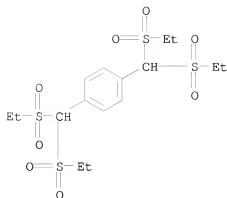
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN 1,4-Benzenedicarbodithioic acid, potassium salt (1:2)  
MF C8 H6 S4 . 2 K



● 2 K

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(ethylsulfonyl)methyl]-, compd. with acetonitrile  
(1:1)  
MF C16 H26 O8 S4 . C2 H3 N

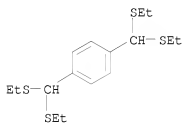
CM 1



CM 2

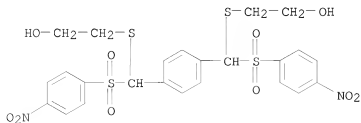


L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(ethylthio)methyl]-  
 MF C16 H26 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

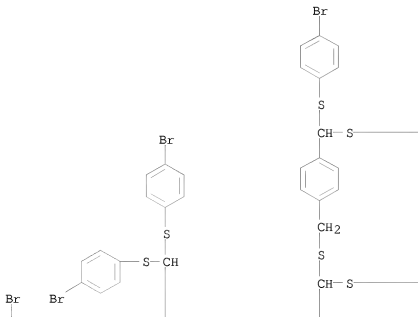
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Ethanol, 2,2'-[1,4-phenylenebis[[[(4-nitrophenyl)sulfonyl]methylene]thio]]bis- (9CI)  
 MF C24 H24 N2 O10 S4



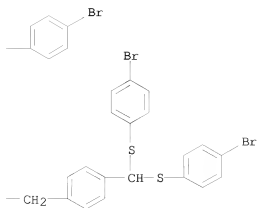


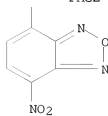
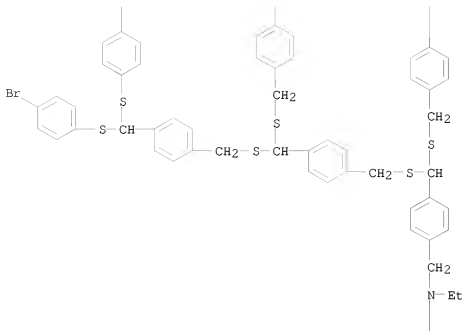
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 2,1,3-Benzoxadiazol-4-amine, N-[[[4-[bis[[[4-[bis[[[4-[bis[[[4-bromophenyl]thio]methyl]phenyl]methyl]thio]methyl]phenyl]methyl]thio]methy  
 MF C112 H88 Br8 N4 O3 S14

PAGE 1-A



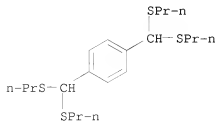
PAGE 1-B





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

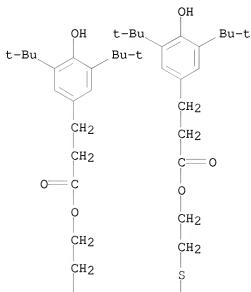
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(propylthio)methyl]-  
MF C20 H34 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-,  
 1,4-phenylenebis[methylidynebis(thio-2,1-ethanediyl)] ester (9CI)  
 MF C84 H122 O12 S4

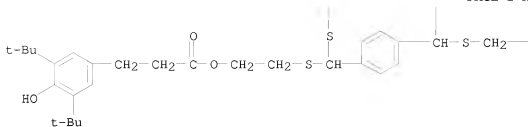
PAGE 1-A



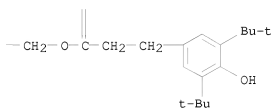
PAGE 1-B



PAGE 2-A



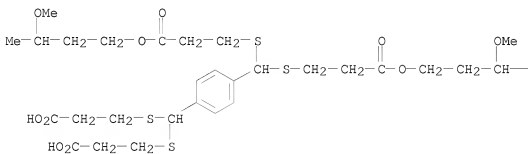
PAGE 2-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 10,14-Dioxo-4,6-dithiapentadecanoic acid,  
 5-[4-[bis[(2-carboxyethyl)thio]methyl]phenyl]-13-methyl-9-oxo-,  
 1-(3-methoxybutyl) ester  
 MF C30 H46 O10 S4

PAGE 1-A



PAGE 1-B

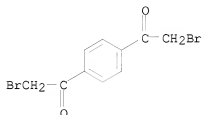
— Me

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2), polymer  
 with 1,1'-(1,4-phenylene)bis[2-bromoethanone] (9CI)  
 MF (C10 H8 Br2 O2 . C8 H6 S4 . 2 C5 H11 N)x  
 CI PMS

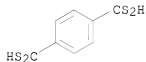
\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1



CM 2

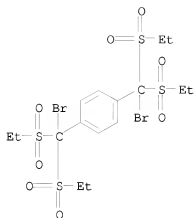
CM 3



CM 4



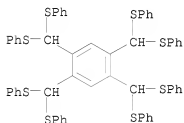
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bromobis(ethylsulfonyl)methyl]-  
 MF C16 H24 Br2 O8 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

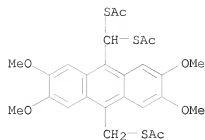
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,2,4,5-tetrakis[bis(phenylthio)methyl]-  
MF C58 H46 S8



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Acetic acid, thio-, S,S,S-triester with  
10-(mercaptomethyl)-2,3,6,7-tetramethoxy-9-anthracenemethanedithiol (8CI)  
MF C26 H28 O7 S3



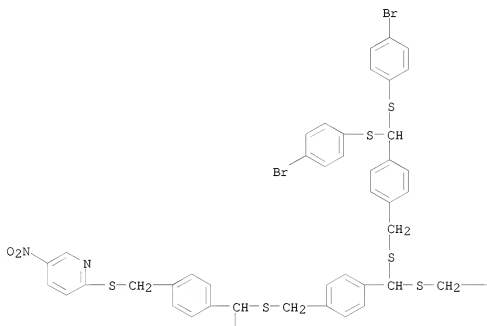
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

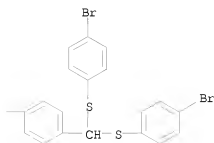
IN Pyridine, 2-[[[4-[bis[[[4-[bis[[[4-[bis[(4-bromophenyl)thio)methyl]phenyl)methyl]thio)methyl]phenyl)methyl]thio)methyl]phenyl)methyl]thio]methyl]phenyl)methyl]thio]-5-nitro-

MF C109 H84 Br8 N2 O2 S15

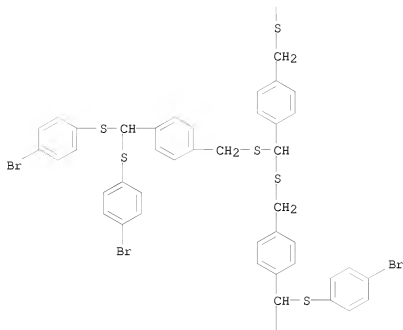
PAGE 1-A



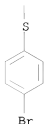
PAGE 1-B



PAGE 2-A

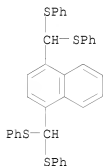






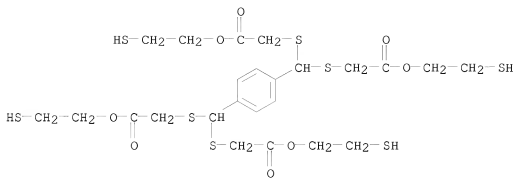
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on SIN  
 IN Naphthalene, 1,4-bis[bis(phenylthio)methyl]-  
 MF C36 H28 S4

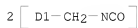


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

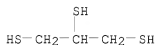
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on SIN  
 IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methyldiynabis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester, polymer with bis(isocyanatomethyl)benzene and 1,2,3-propanetrithiol (9CI)  
 MF (C24 H34 O8 S8 . C10 H8 N2 O2 . C3 H8 S3)x  
 CI PMS  
 CM 1



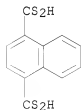
CM 2



CM 3



L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Naphthalenedicarbodithioic acid  
 MF C12 H8 S4  
 CI COM



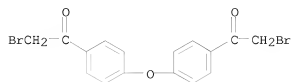
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2), polymer  
 with 1,1'-(oxydi-4,1-phenylene)bis[2-bromoethanone] (9CI)

MF (C16 H12 Br2 O3 . C8 H6 S4 . 2 C5 H11 N) x  
 CI PMS

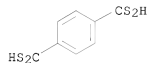
\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1



CM 2

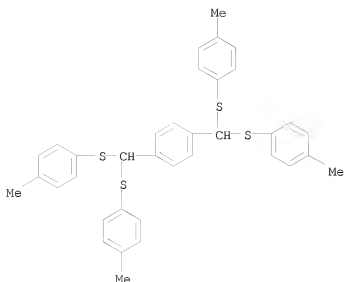
CM 3



CM 4

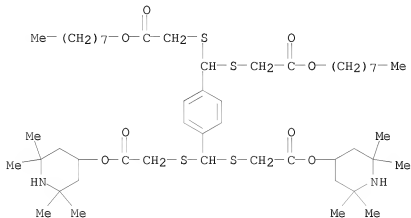


L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis[(4-methylphenyl)thio]methyl]-  
 MF C36 H34 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

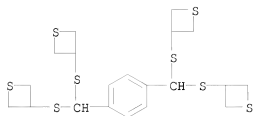
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Acetic acid, 2,2'-[[4-[[bis[[2-(octyloxy)-2-oxoethyl]thio]methyl]phenyl]methylene]bis(thio)]bis-,  
 bis(2,2,6,6-tetramethyl-4-piperidinyl) ester (9CI)  
 MF C50 H84 N2 O8 S4



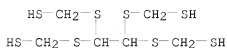
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Methanethiol, [1,2-ethanediylidene]tetrakis(thio)]tetrakis-, polymer with  
 3,3',3'',3'''-1,4-phenylenebis[methyldiynenebis(thio)]]tetrakis[thietane]  
 and sulfur (9CI)  
 MF (C20 H26 S8 . C6 H14 S8 . S)x  
 CI PMS

CM 1



CM 2



CM 3

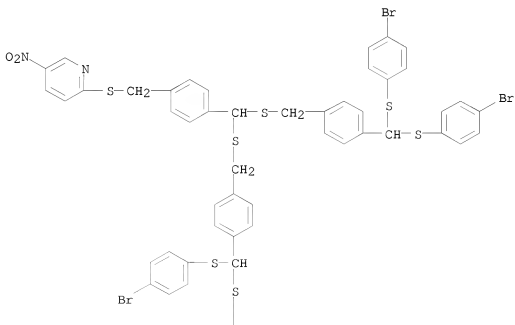
S

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN Pyridine, 2-[[[4-[bis[[[4-[bis(4-bromophenyl)thio]methyl]phenyl]methyl]thio]methyl]phenyl]methyl]thio]-5-nitro-

MF C53 H40 Br4 N2 O2 S7

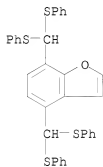
PAGE 1-A





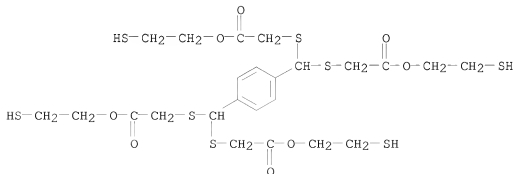
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on SIN  
 IN Benzo[1,2-b:4,5-b']difuran, 4,7-bis[bis(phenylthio)methyl]-  
 MF C34 H26 O S4



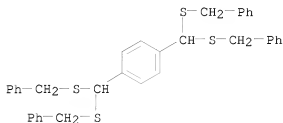
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on SIN  
 IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methyldiynabis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester (9CI)  
 MF C24 H34 O8 S8  
 CI COM



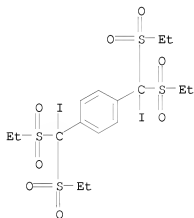
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(phenylmethyl)thio]methyl]-  
MF C36 H34 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

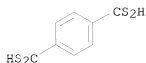
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[bis(ethylsulfonyl)iodomethyl]-  
MF C16 H24 I2 O8 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2)  
MF C8 H6 S4 . 2 C5 H11 N  
CI COM

CM 1

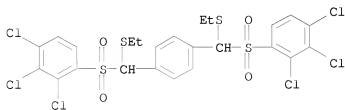


CM 2



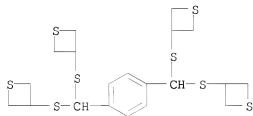
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzene, 1,4-bis[(ethylthio)[(2,3,4-trichlorophenyl)sulfonyl]methyl]-  
MF C24 H20 Cl6 O4 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Thietane, 3,3',3'',3'''-[1,4-phenylenebis[methylidynebis(thio)]]tetrakis-  
(9CI)  
MF C20 H26 S8  
CI COM

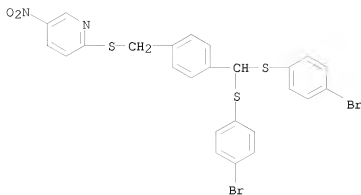


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Pyridine, 2-[[[4-[bis[(4-bromophenyl)thio]methyl]phenyl]methyl]thio]-5-



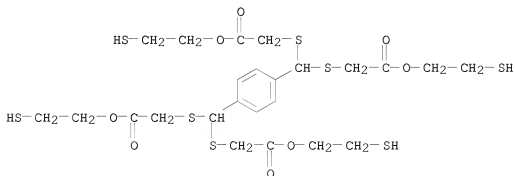
nitro-  
MF C25 H18 Br2 N2 O2 S3



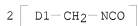
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on SIN  
IN Acetic acid, 2,2',2'',2'''-[1,4-phenylenebis[methyldiynabis(thio)]]tetrakis-, tetrakis(2-mercaptoethyl) ester, polymer with bis(isocyanatomethyl)benzene and 1,2-propanedithiol (9CI)  
MF (C24 H34 O8 S8 . C10 H8 N2 O2 . C3 H8 S2)x  
CI PMS

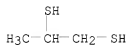
CM 1



CM 2

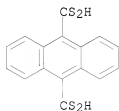


CM 3



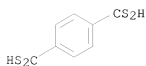
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 9,10-Anthracenedicarbodithioic acid  
 MF C16 H10 S4  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

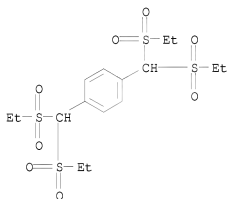
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, potassium salt, hydrate (1:2:2)  
 MF C8 H6 S4 . 2 H2 O . 2 K



● 2 K

● 2 H<sub>2</sub>O

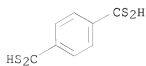
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(ethylsulfonfyl)methyl]-  
 MF C16 H26 O8 S4  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:1) (9CI)  
 MF C8 H6 S4 . C5 H11 N

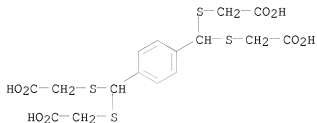
CM 1



CM 2



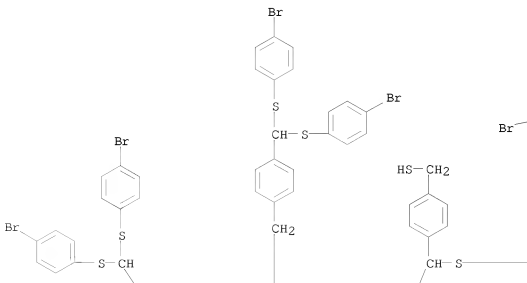
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Acetic acid, 2,2'-[1,4-phenylenebis[methylidynebis(thio)]]tetrakis- (9CI)  
MF C16 H18 O8 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN Benzenemethanethiol, 4-[bis[[4-(bis[[4-(bis[[4-(  
bromophenyl)thio]methyl]phenyl]methyl]thio]methyl]phenyl]methyl]thio]methy  
l]-  
MF C104 H82 Br8 S15

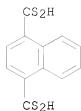
PAGE 1-A







CM 1



CM 2

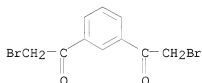


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
IN 1,4-Benzenedicarbodithioic acid, compd. with piperidine (1:2), polymer  
with 1,1'-(1,3-phenylene)bis[2-bromoethanone] (9CI)  
MF (C10 H8 Br2 O2 . C8 H6 S4 . 2 C5 H11 N)x  
CI PMS

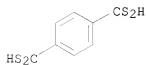
\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1



CM 2

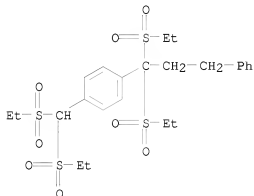
CM 3



CM 4

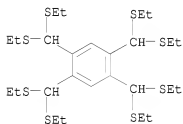


L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1-[bis(ethylsulfonyl)methyl]-4-[1,1-bis(ethylsulfonyl)-3-phenylpropyl]-  
 MF C24 H34 O8 S4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

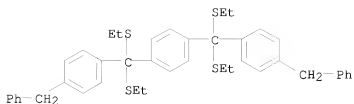
L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,2,4,5-tetrakis[bis(ethylthio)methyl]-  
 MF C26 H46 S8



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L37 54 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzene, 1,4-bis[bis(ethylthio)[4-(phenylmethyl)phenyl]methyl]-  
 MF C42 H46 S4





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

```
=> loigoff hold
      0 LOIGOFF
      43 HOLD
L42      0 LOIGOFF HOLD
          (LOIGOFF(W)HOLD)
```

```
=> logoff hold
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY      SESSION
FULL ESTIMATED COST          13.45      1176.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                                ENTRY      SESSION
CA SUBSCRIBER PRICE              0.00      -17.85
```

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 08:43:41 ON 14 MAY 2010